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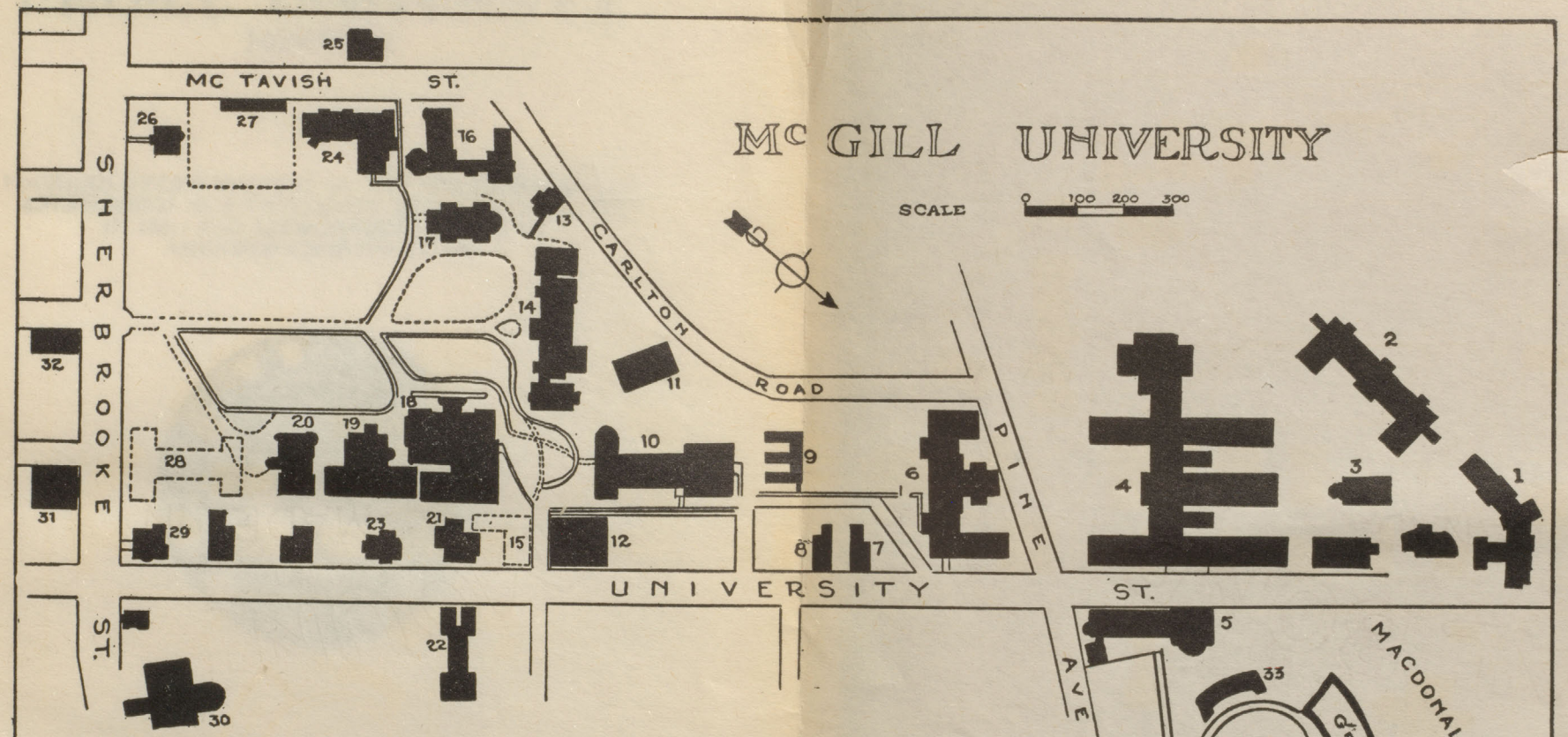
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AMENDED CHARTER IN 1852

CALENDAR

FOR THE SESSION 1930-31

MONTREAL:
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1930

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Norah Cam, M.A.
Demonstrator in Physics. Physics Building.

George S. Cameron, D.D.S., L.D.S.
Professor of Prosthetic Dentistry. Birks' Building, 14 Phillips Sq.

A. D. Campbell, M.D.
Demonstrator in Obstetrics and Gynæcology. Medical Arts Bldg.

D. G. Campbell, B.A., M.D.
Lecturer in Therapeutics and in Medicine. 1511 Mackay St.

H. N. Campbell, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

A. E. CANTON.
Lecture Assistant in Chemistry. Chemistry Building.

CLIVE HARCOURT CARRUTHERS, B.A. (Toronto and Oxon.), M.A. (Toronto), Ph.D. (Chicago).
Professor of Classical Philology. 148 Wolseley Ave., Montreal W.

MARY DUNCAN CARTER, Ph.B., B.L.S.
Assistant Professor of Library Administration and Assistant Director of the Library School. Redpath Library.

E. H. CAYFORD, B.A., M.D.
Demonstrator in Anatomy. Medical Arts Building.

FRANK P. CHAMBERS, M.A. (Cantab.), Mem. Am. I.A.
Assistant Professor of Architecture. Engineering Building.

A. B. CHANDLER, B.A., M.D.
Lecturer in Pediatrics. 1421 Bishop St.

E. B. CHANDLER, M.D.
Demonstrator in Anatomy and Surgery. Medical Arts Building.

W. H. CHASE, B.A., M.D.
Lecturer and Douglas Fellow in Pathology. Pathological Institute.

MARY CHILDS, B.A., M.D.
University Medical Officer for Women. 4580 LaSalle Ave.

WARWICK FIELDING CHIPMAN, B.A., B.C.L., K.C.
Professor of Civil Law. 360 St. James St.

C. V. CHRISTIE, B.Sc., M.A. (Dal.).
Professor of Electrical Engineering. 87 Holton Ave., Westmount.

R. V. CHRISTIE, M.B., Ch.B. (Edin.).
Research Fellow, University Medical Clinic.
Royal Victoria Hospital.

H. D. CLAPPERTON, C.A.
Lecturer in Accountancy. 460 St. Francois Xavier St.

WALTER CLAPPERTON, Hon. A.R.C.M.
Instructor in Singing. Conservatorium of Music.

J. R. CLARK.
Demonstrator in Drawing and Descriptive Geometry. Eng. Building.

T. H. CLARK, Ph.D. (Harvard).
Logan Professor of Palæontology. Peter Redpath Museum.

DOUGLAS CLARKE, M.A., Mus.B. (Cantab.), F.R.C.O.
Dean of the Faculty of Music and Director of the Conservatorium of Music. Conservatorium of Music.

F. CLARKE, M.A. (Oxon.).
Professor of Education. Arts Building.

BROOKE CLAXTON, B.C.L.
Lecturer in Commercial Law and Insurance. 276 St. James St.

Mrs. A. E. Coleman.
Lecturer in Story Telling. School of Physical Education.

James Bertram Collip, M.A., Ph.D. (Toronto), M.D., D.Sc. (Alberta), F.R.S.C.
Professor of Bio-Chemistry and Chairman of the Department. 6 Grenville Ave., Westmount.

W. V. Cone, B.Sc., M.D.
Assistant Professor of Neurological Surgery. 1390 Sherbrooke Street West.

Raymond L. Conklin, D.V.M., M.Sc.
Veterinarian and Assistant Professor of Animal Pathology. Macdonald College.

D. LeB. Cooper, M.Sc.
Demonstrator in Chemistry. Chemistry Building.

Irvin Cooper, Mus. Bac., A.R.M.C.M.
Instructor in Pianoforte. Conservatorium of Music.

James A. Coote, B.Sc.
Assistant Professor of Mechanical Engineering. 7 Cedar Ave., Pointe Claire, Que.

Percy Ellwood Corbett, M.A. (McGill and Oxon.).
Dean of the Faculty of Law and Gale Professor of Roman Law. 3666 Lorne Crescent.

John G. Coulson, M.A.
Assistant Professor of Plant Pathology. Macdonald College.

S. A. Craig, B.Sc.
Demonstrator in Electrical Engineering. Engineering Building.

Earle W. Crampton, M.Sc.
Assistant Professor of Animal Husbandry. Macdonald College.

C. T. Crowdy, M.D.
Lecturer in Histology. 73 Westminster Ave., Montreal West.

John Cullitón, M.A.
Assistant Professor of Economics. Arts Building.

H. W. Cunningham.
Instructor in Dairying. Macdonald College.

G. S. Currie, B.A., C.A.
Lecturer in Accountancy. 261 St. James St.

H. B. Cushing, B.A., M.D.
Clinical Professor of Pediatrics. Medical Arts Building.

Miss Renée D'Amour, L.Mus.
Instructor in Violin and Viola. Conservatorium of Music.

F. T. Davies, M.Sc. (absent on leave).
Demonstrator in Physics. Physics Building.

Carl Addington Dawson, B.A., Ph.D.
Professor of Sociology and Director of the School for Social Workers. 815 Victoria Ave.

HOWARD DAWSON, B.A., M.D.
Assistant Demonstrator in Surgery. 1538 Sherbrooke St. West.

JOHN PERCIVAL DAY, B.A., B.Sc. (Lond.), D.Phil. (St. Andrews).
Associate Professor of Economics. Arts Building.

PAUL DE MARKY.
Instructor in Pianoforte. Conservatorium of Music.

CLAUDE DE VILLE.
Instructor in Pianoforte. Conservatorium of Music.

LOUIS D'HAUTESERVE, B. ès L. and Ph. (Paris), M.A. (McGill), Ing. E.F.M. and M.L. (Paris).
Assistant Professor of French. Arts Building.

MARJORIE DOBIE, R.N.
Lecturer in Teaching in Nursing Schools. Royal Victoria Hospital.

G. J. DODD, M.Sc.
Assistant Professor of Mathematics and Civil Engineering. Engineering Building.

J. S. DOHAN, D.D.S., L.D.S.
Professor of Prosthetic Dentistry. 1411 Stanley St.

M. L. DONIGAN, D.D.S., L.D.S.
Demonstrator in Orthodontia. 1396 St. Catherine St., West.

ALLIE V. DOUGLAS, M.B.E., M.Sc., Ph.D.
Lecturer in Astrophysics. Physics Building.

H. V. DRIVER, D.D.S.
Clinical Demonstrator in Dentistry. 14 Phillips Square.

J. W. DUNCAN, M.D., F.A.C.S.
Clinical Professor of Obstetrics and Gynæcology. Medical Arts Building.

E. MELVILLE DUPORTE, B.S.A., Ph.D., F.A.A.A.S.
Assistant Professor of Entomology and Zoology.

RAOUL DUQUETTE.
Instructor in Violoncello. Macdonald College. Conservatorium of Music.

MME. DURAND-JOLY, Diplomée ès lettres, Philosophie, (Université de Paris).
Lecturer in French. Royal Victoria College.

ANDRÉ DURIEUX.
Instructor in Violin and Viola. Conservatorium of Music.

RENÉ DU ROURE, Agrégé des Lettres de l'Université de France.
Professor of French Literature and Chairman of the Department of Romance Languages. Arts Building.

F. DYONNET, R.C.A.
Special Lecturer in Freehand Drawing and Modelling. Engineering Building.

E. M. EBERTS, M.D., M.R.C.S. (Eng.), L.R.C.P. (Lond.).
Professor of Surgery. The Drummond Medical Building, 1414 Drummond Street.

HAROLD F. H. EBERTS, B.A., M.D.
Assistant Demonstrator in Medicine. 4914 Sherbrooke St. W.

F. A. EDWARD, B.A., D.D.S.
Clinical Demonstrator in Dentistry. 9910 Medical Arts Building.

WYNN. EDWARDS.
Assistant Professor of Zoology. Biological Building.

H. M. ELDER, M.D.
Demonstrator in Anatomy and Assistant Demonstrator in Surgery. Medical Arts Building.

J. C. ELDER, B.Sc.
Demonstrator in Drawing and Descriptive Geometry. Engineering Building.

ESTHER ENGLAND, B.A.
Assistant in English. Arts Building.

W. E. ENRIGHT, B.A., M.D.
Demonstrator in Pediatrics. 388 Roslyn Ave., Westmount.

L. P. EREAUX, B.Sc., M.D.
Demonstrator in Dermatology. 1390 Sherbrooke St. West.

HENRY M. ESTALL, B.A.
Reader in Psychology. Arts Building.

NEVIL NORTON EVANS, M.A.Sc.
Professor of Chemistry. 352 Kitchener Ave., Westmount.

A. S. EVE, C.B.E., M.A. (Cantab), D.Sc., F.R.S.C., F.R.S.
Macdonald Professor of Physics and Director of the Department of Physics. 3564 University St.

J. HOWARD T. FALK.
Lecturer in Social Welfare Administration. 1421 Atwater Ave.

JOHN COLBORNE FARTHING, M.A. (Oxon.).
Assistant Professor of Economics. Arts Building.

HAROLD G. FILES, M.A., Ph.D. (Harvard).
Associate Professor of English. Arts Building.

HAY FINLAY, Dip. M.S.P.E.
Soccer and Gymnastic Coach and Assistant Physical Director. 3484 University St.

W. H. FINNEY, B.Sc. (Med.), M.Sc.
Demonstrator in Physiology. Biological Building.

WALTER M. FISK, M.D.
Lecturer in Histology. 506 Pine Ave. West.

R. R. FITZGERALD, B.Sc., M.D.
Demonstrator in Anatomy and Assistant Demonstrator in Surgery. 719 Medical Arts Building.

EILEEN CONSTANCE FLANAGAN.
Research Worker and Lecturer in Supervision in Nursing Schools. Royal Victoria Hospital.

G. A. Fleet, M.Sc., M.D.
Demonstrator in Anatomy and Assistant Demonstrator in Surgery. 1500 Crescent St.

A. Grant Fleming, M.C., M.D., D.P.H.
Professor of Public Health and Preventive Medicine and Director of the Department. Medical Building.

D. S. Forbes, M.C., B.Sc., B.Arch.
Athletics Manager. McGill Union.

Eugène Forsey, B.A. (Oxon.), M.A.
Lecturer in Economics. Arts Building.

D. S. Forster, M.A., M.D.
Demonstrator in Anatomy. 4532 Wellington St.

J. S. Foster, Ph.D.
Professor of Physics. 615 Lansdowne Ave., Westmount.

Gerald Franklin, L.D.S., D.D.S.
Lecturer in Orthodontia. Medico-Dental Building.

J. R. Fraser, M.D.
Professor of Gynæcology and Obstetrics. 670 Sherbrooke St. W.

R. De L. French, B.Sc., C.E., Mem. Am. Soc. C.E.
Professor of Highway and Municipal Engineering. 456 Pine Ave. W.

C. E. Fryer, M.A., Ph.D. (Harvard).
Professor of History. Arts Building.

Mrs. Lucie Touren Furness, Licencié ès Lettres de l'Université de France.
Assistant Professor of French. 387 Roslyn Ave., Westmount.

W. Gatehouse.
Shop Instructor in Mechanical Engineering. Engineering Building.

R. D. Gibbs, B.Sc. (Lond.), M.Sc.
Lecturer in Botany. Biological Building.

N. Giblin, M.C., B.A. (Tas.), M.B., Ch.B. (Edin.).
Assistant Professor of Physiology. Biological Building.

J. E. Gill, Ph.D.
Assistant Professor of Geology. Chemistry and Mining Building.

A. H. S. Gillson, M.A. (Cantab.).
Associate Professor of Mathematics. 900 Sherbrooke St. West.

Alton Goldbloom, B.A., M.D.
Lecturer in Pediatrics. 1543 Crescent St.

J. R. Goodall, O.B.E., B.A., M.D., D.Sc.
Clinical Professor of Obstetrics and Gynæcology.

A. H. Gordon, M.D. 1628 Sherbrooke St. West.
Associate Professor of Medicine. Medical Arts Building.

Alex. R. Gordon, M.A., D.Litt., D.D. (Aberdeen).
Professor of Hebrew. 3506 University St.

KEITH GORDON, B.A., M.D.
Demonstrator in Medicine. Medical Arts Building.

A. H. GOWAN, C.A.
Lecturer in Accountancy. 465 St. John St.

W. C. GOWDEY, M.D.
Assistant Demonstrator in Medicine. 4492 Sherbrooke St. West.

W. L. GRAFF, Ph.D.
Associate Professor of German. 1421 Queen Mary Rd.

G. B. GRAHAM, A.B.
Demonstrator in Chemistry. Chemistry Building.

RICHARD P. D. GRAHAM, B.A. (Oxon.), D.Sc.
Professor of Mineralogy. Chemistry Building.

LEONA GRAY, M.A.
Lecturer in English and Director of Play Production. Arts Bldg.

P. H. H. GRAY.
Assistant Professor of Bacteriology. Macdonald College.

H. S. N. GREENE, B.A., M.D.
Assistant Demonstrator in Pathology. Pathological Institute.

DOUGLAS GURD, M.D.
Demonstrator in Obstetrics and Gynæcology. 1482 Mackay St.

FRASER B. GURD, B.A., M.D.
Lecturer in Surgery. 1538 Sherbrooke St. West.

LIONEL H. HAMILTON, M.S.
Lecturer in Animal Husbandry. Macdonald College.

W. F. HAMILTON, M.D., F.R.C.P.S. (Canada).
Professor of Medicine. 1225 Mountain St.

TALITHA A. HANKE, B.S.
Lecturer in the School of Household Science. Macdonald College.

R. H. M. HARDISTY, D.S.O., M.C., B.A., M.D.
Demonstrator in Medicine. Medical Arts Building.

H. W. HARKNESS, B.A., M.Sc.
Demonstrator in Physics. Physics Building.

BERTHA HARMER, R.N., B.Sc., M.A.
Director of the School for Graduate Nurses.
School for Graduate Nurses.

F. W. HARVEY, B.A., M.D. (University Medical Officer).
Lecturer in Physio-Therapy. 4007 Dorchester St., Westmount.

RUTH HARVEY, B.Sc., Graduate Sargent Normal School.
Assistant Physical Director for Women. Royal Victoria College.

W. H. HATCHER, M.Sc., Ph.D.
Associate Professor of Chemistry. Biological Building.

MYRTLE A. HAYWARD, B.Sc., M.A.
Lecturer in Educational Methods and Foods and Cookery. Macdonald College.

A. K. HAYWOOD, M.C., M.B., M.R.C.S., L.R.C.P. (Lond.).
Instructor in Hospital Administration (School for Graduate Nurses). Montreal General Hospital.

ELSIE MAY HEATHCOTE, Dip. M.S.P.E.
Instructor in Physical Training. Macdonald College.

J. F. HEARD, B.A.
Demonstrator in Physics. Physics Building.

L. G. HEIMPEL, B.S.A.
Assistant Professor of Agricultural Engineering. Macdonald Coll.

J. C. HEMMEON, M.A., Ph.D. (Harvard).
R. B. Angus Professor of Economics. Arts Building.

CHARLES WILLIAM HENDEL, Jr., Litt.B. and Ph.D. (Princeton).
Macdonald Professor of Moral Philosophy and Chairman of the Department of Philosophy. Arts Building.

A. T. HENDERSON, M.D.
Demonstrator in Medicine. 900 Sherbrooke St. West.

CHARLES K. P. HENRY, M.D., C.M., F.A.C.S.
Assistant Professor of Surgery. 605 Medical Arts Building.

FRED G. HENRY, D.D.S., L.D.S.
Professor of Dental Pathology and Therapeutics. 1410 Guy St.

MARGARET M. HERDMAN, A.B., B.L.S. (Illinois).
Assistant Professor of Cataloguing and Classification. The Library School.

JESSE S. HERRIOTT, Graduate New Haven Normal School of Gymnastics, B.Sc., M.A. (Columbia University).
Physical Director for Women. Royal Victoria College.

NORMAN HERSCHORN.
Instructor in Violin and Viola. Conservatorium of Music.

HAROLD HIBBERT, D.Sc., Ph.D.
E. B. Eddy Professor of Industrial and Cellulose Chemistry. Pulp and Paper Research Institute.

MARION VILLIERS HIGGINS, B.A., M.A. in Library Science.
Lecturer in Reference Work and Bibliography. The Library.

G. C. HILTON, M.S.
Lecturer in Horticulture. Macdonald College.

C. M. HINCKS, B.A., M.B.
Lecturer in Mental Hygiene. Medical Building.

G. E. HODGE, M.D.
Demonstrator in Oto-Laryngology. Medical Arts Building.

S. R. N. Hodgins, B.S.A., M.A.
Assistant Professor of English and Journalism. Macdonald College.

G. L. Holbrooke.
Demonstrator in Geology. Chemistry and Mining Building.

R. K. Holcomb.
Demonstrator in Chemistry. Chemistry Building.

Campbell Palmer Howard, B.A., M.D.
Professor of Medicine. 630 Clarke Ave., Westmount.

Hon. Mr. Justice Eratus Edwin Howard, B.A., B.C.L.
Professor of Civil Law. 655 Grosvenor Ave.

David Howat, M.A.
Lecturer in Mathematics. Arts Building.

W. B. Howell, M.D., L.R.C.S., L.R.C.P. (Edin.).
Lecturer in Anæsthetics. 1610 Sherbrooke St. West.

F. S. Howes, Ph.D.
Lecturer in Electrical Engineering. Engineering Building.

Everett C. Hughes, B.A., Ph.D. (Chicago).
Assistant Professor of Sociology. Arts Building.

Helen MacGill Hughes, B.A. (U.B.C.), M.A. (Chicago).
Assistant in Sociology. Arts Building.

Water H. Hungerford.
Instructor in Pianoforte. Conservatorium of Music.

George Hunter, C.A.
Lecturer in Accountancy. 460 St. Francois Xavier St.

R. G. Hunter, M.A. (Toronto).
Demonstrator in Physics. Physics Building.

C. L. Huskins, Ph.D.
Associate Professor of Botany. Biological Building.

Keith Hutchison, M.D.
Assistant Demonstrator in Oto-Laryngology.
1509 Sherbrooke St. West.

E. C. Irvine, M.A.
Lecturer in Mathematics. Macdonald College.

R. E. Jamieson, M.Sc.
Associate Professor of Mathematics and Civil Engineering. 234 Metcalfe Ave., Westmount.

Edith Johnson.
Instructor in Pianoforte. Conservatorium of Music.

F. M. G. Johnson, M.Sc., Ph.D. (Breslau), F.I.C., F.R.S.C.
Professor of Inorganic Chemistry and Director of the Department of Chemistry. 4 Chelsea Place, Simpson St.

Guy Johnson, M.A., M.D., F.R.C.S. (Edin.), F.A.C.S.
Demonstrator in Surgery. 1005 Sherbrooke St. West.

F. B. Jones, M.D., D.P.H.
Assistant Professor of Hygiene. 276 Sherbrooke St. West.

C. R. Joyce, M.D.
Demonstrator in Medicine. 5242 Park Ave.

Kiang Kang-hu, Ph.D.
Professor of Chinese Studies. Arts Building.

L. Kaster.
Instructor on the Oboe. Conservatorium of Music.

Joseph Kaufmann, M.D.
Lecturer in Medicine. 1476 Crescent St.

Mark Kaufman, M.D.
Assistant Demonstrator in Surgery. Medical Arts Building.

P. J. Kearns, M.Sc., M.D.
Clara Law Fellow and Demonstrator in Obstetrics and Gynæcology. Pathological Institute.

C. B. Keenan, D.S.O., M.D.
Assistant Professor of Surgery. 1500 Mountain St.

Chester E. Kellogg, B.A. (Bowdoin), M.A., Ph.D. (Harvard).
Associate Professor of Psychology. Arts Building.

Albert J. Kelly, B.Sc.
Associate Professor of Surveying. The Observatory.

David A. Keys, M.A. (Toronto), Ph.D. (Harvard), Ph.D. (Cantab.), F.R.S.C.
Professor of Physics. 201 Brock Ave. North, Montreal West.

Louis V. King, M.A. (Cantab.), D.Sc., F.R.S.
Macdonald Professor of Physics. 3690 Ste. Famille St.

R. L. Kutz, M.Sc. (Alberta).
Research Fellow in Biochemistry. Biological Building.

Sinclair Laird, M.A., B.Phil., Officier de l'Instruction Publique.
Dean of the School for Teachers and Professor of Education. Macdonald College.

Arthur S. Lamb, B.P.E., M.D.
Director of the Department of Physical Education. 3484 University St.

G. W. Latham, B.A. (Harvard).
Associate Professor of English. 267 Regent Ave.

J. E. Latimer, B.S.A., M.Sc., Ph.D. (Wisconsin).
Professor of Agricultural Economics. Macdonald College.

Stephen Leacock, B.A. (Toronto), Ph.D. (Chicago), Litt.D. (Brown Dartmouth, and Toronto), LL.D. (Queen's), F.R.S.C.
William Dow Professor of Political Economy. 165 Côte des Neiges Road.

W. G. Leahy, D.D.S.
Lecturer in Operative Dentistry. Montreal General Hospital.

GEORGES EDOUARD LEMAÎTRE, Agrégé de l'Université (Paris).
Assistant Professor of Romance Languages. Arts Building.

CHARLES STUART LEMESURIER, B.A., B.C.L., K.C.
Professor of Civil Law. 419 Roslyn Ave., Westmount.

D. SCLATER LEWIS, M.Sc., M.D.
Assistant Professor of Therapeutics and Lecturer in Medicine. Medical Arts Building.

MARION LINDEBURGH, R.N.
Instructor in Health Education and "Teacher Training." School for Graduate Nurses.

L. M. LINDSAY, M.D.
Lecturer in Pediatrics. Medical Arts Building.

G. D. LITTLE, M.D.
Demonstrator in Anatomy. Medical Arts Building.

H. M. LITTLE, B.A., M.D., F.A.C.S.
Professor of Obstetrics and Gynæcology. 1374 Sherbrooke St. West.

FRANCIS ERNEST LLOYD, M.A. (Princeton), F.R.S.C., F.L.S.
Macdonald Professor of Botany and Director of the Biological Building. 3521 University St.

A. R. B. LOCKHART, M.A. (Columbia).
Lecturer in Elementary Education. Macdonald College.

E. A. LODS, M.S.A.
Assistant Professor of Agronomy. Macdonald College.

GERHARD R. LOMER, M.A., Ph.D.
University Librarian, Director of the Library School and Professor of Library Administration. Redpath Library.

C. N. H. LONG, M.S. (Manchester), M.D.
Assistant Professor of Medical Research. Royal Victoria Hospital.

I. K. LOWRY, B.A., D.D.S.
Lecturer in Prosthetic Dentistry. Montreal General Hospital.

A. E. LUNDON, M.D., D.P.H.
Assistant Demonstrator in Oto-Laryngology. 1501 Crescent St.

A. G. MCAULEY, M.D.
Demonstrator in Ophthalmology. 1301 Dorchester St. West.

A. R. MCBAIN, B.A. (Dal.), M.A.
Assistant in English. Arts Building.

WILBERT GEORGE MCBRIDE, B.Sc., M.I.M.M.
Macdonald Professor of Mining Engineering. Chem. and Mining Bldg.

HAZEL B. MCCAIN.
Superintendent of Quebec Women's Institutes. Macdonald College.

D. MACCALLUM, M.D.
Demonstrator in Medicine. 1390 Sherbrooke St. West.

J. B. McCarthy, B.A., D.Sc.
Assistant Professor of Chemistry. Macdonald College.

A. W. McClelland, D.D.S., L.D.S.
Professor of Orthodontia. 1117 St. Catherine St. W.

A. H. MacCordick, M.D.
Lecturer in Medicine. 1454 Mountain St.

P. F. McCullagh, M.A.
Lecturer in Classics. Arts Building.

James L. McCulloch.
Lecturer in Insurance and Transportation. 465 St. John St

L. R. McCurdy, M.Sc.
Lecturer in Mechanical Engineering and Demonstrator in Mechanical Drawing. Engineering Building.

H. E. MacDermot, M.D.
Lecturer in Anatomy and Demonstrator in Medicine. Medical Arts Building.

T. W. L. MacDermot, M.A. (Oxon.).
Assistant Professor of History. 1776 Queen Mary Road.

J. E. MacDonald.
Instructor on the French Horn. Conservatorium of Music.

R. St. J. Macdonald, B.A., M.D., D.P.H.
Assistant Professor of Hygiene. Medical Building.

Gordon Walters MacDougall, B.A., B.C.L., K.C.
Professor of Private International Law. 3534 Ontario Ave.

Hugh McEachran, L.Mus.
Instructor in Pianoforte. 1115 Sherbrooke St. West.

Alice E. McEwen.
Assistant to Superintendent of Quebec Women's Institutes. Macdonald College.

Freda MacGachen, B.A.
Assistant in English. Arts Building.

J. F. MacIver, M.D.
Demonstrator in Medicine. 311 Wilson Ave.

D. D. MacKay.
Demonstrator in Chemistry. Chemistry Building.

F. H. Mackay, M.D.
Clinical Professor of Neurology. 1538 Sherbrooke St. W.

H. M. Mackay, B.A., B.A.Sc., LL.D., M.Am. Soc. C.E.
Dean of the Faculty of Applied Science and William Scott Professor of Civil Engineering. 4375 Montrose Ave., Westmount.

Ira Allan Mackay, M.A. (Dal.), LL.B. (Dal.), Ph.D. (Cornell), LL.D. (Queen's).
Dean of McGill College and Frothingham Professor of Logic and Metaphysics. Linton Apartments.

MRS. H. A. MCKEAN.
Instructor in Remedial Gymnastics and Massage in the School of Physical Education. Royal Victoria College.

D. W. MCKECHNIE, D.S.O., M.D.
Demonstrator in Medicine. 570 Milton St.

S. HANFORD MCKEE, C.M.G., B.A., M.D.
Clinical Professor of Ophthalmology. 1528 Crescent St.

D. W. MACKENZIE, B.A., M.D.
Clinical Professor of Urology. 305 Medical Arts Building.

MARY E. MACKENZIE, B.A. (Dal.).
Lecturer in English and Resident Assistant in the Royal Victoria College. Royal Victoria College.

NORENA S. MACKENZIE, R.N.
Lecturer in Teaching in Nursing Schools. Montreal General Hospital.

FRANCIS E. MCKENTY, M.D., F.A.C.S., F.R.C.S. (Lond.).
Lecturer in Surgery. 2064 Union Ave.

CHARLES MILLAR MCKERGOW, M.Sc.
Professor of Mechanical Engineering. 343 Kensington Ave., Westmount.

R. R. MCKIBBIN, Ph.D.
Assistant Professor of Agricultural Chemistry. Macdonald College.

L. H. MCKIM, M.D.
Demonstrator in Surgery. Medical Arts Building.

MARJORIE MACLAGGAN, B.A.
Assistant in English. Arts Building.

NEIL BRUCE MACLEAN, D.S.O., M.A. (Toronto), Ph.D. (Chicago).
Professor of Applied Mathematics and Joint Chairman of the Department. Arts Building.

R. E. MCMAHON, D.D.S.
Clinical Demonstrator in Dentistry. Montreal General Hospital.

CYRUS MACMILLAN, M.A. (McGill), M.A., Ph.D. (Harvard).
Molson Professor of the English Language and Literature and Chairman of the Department. 484 Wood Ave., Westmount.

J. A. MACMILLAN, M.D.
Demonstrator in Ophthalmology. 1410 Stanley St.

HELEN MACMURCHY, M.D.
Special Lecturer in the School for Graduate Nurses. Department of Pensions and National Health, Ottawa.

S. O. MCMURTRY, B.A., M.D.
Assistant Demonstrator in Ophthalmology. 1433 Stanley St.

S. D. MACNAB.
Assistant in Charge of the Testing Laboratory. 900 Sherbrooke St. West.

W. J. McNally, B.A., M.Sc., M.D., D.L.O., R.C.P. & S. (Eng.).
Assistant Demonstrator in Oto-Laryngology. Medical Arts Building.

B. F. MacNaughton, M.D.
Assistant Demonstrator in Oto-Laryngology. 1487 Bishop St.

Sir Andrew Macphail, Kt., O.B.E., B.A., M.D., LL.D., M.R.C.S.
Professor of the History of Medicine. 2016 Peel St.

O. Maass, M.Sc., Ph.D. (Harvard), F.R.S.C.
Professor of Physical Chemistry. Chemistry Building.

R. B. Malcolm, M.D., M.Sc.
Demonstrator in Anatomy and Surgery. 604 Medical Arts Bldg.

Isabel Stewart Manson, B.A., R.N.
Assistant Director and Instructor in Public Health Nursing. School for Graduate Nurses.

C. F. Martin, B.A., M.D., LL.D. (Queen's).
Dean of the Faculty of Medicine and Professor of Medicine. Medical Building.

O. Martin, L.D.S., D.D.S.
Lecturer in Cleft Palate Restorations.

E. H. Mason, Ph.B., M.D. 144 Laurier Ave. W., Ottawa, Ont.
Assistant Professor of Medicine and Lecturer in Biochemistry. 390 Côte des Neiges Road.

J. L. D. Mason, B.A., M.D.
Demonstrator in Medicine. 3456 Park Ave.

George Herbert Mathewson, B.A., M.D.
Clinical Professor of Ophthalmology.
New Birks Building, Phillips Square.

J. Arthur Mathewson, B.A., B.C.L., K.C.
Lecturer in Commercial Law. 275 St. James St.

T. H. Matthews, M.A. (Oxon.).
Lecturer in Mathematics. Registrar's Office.

A. J. G. Maw, M.S.
Lecturer in Poultry Husbandry. Macdonald College.

W. A. Maw, M.S.A.
Assistant Professor of Poultry Husbandry. Macdonald College.

J. C. Meakins, M.D., LL.D. (Edin.), F.R.C.P. (Edin.), F.R.S. (Edin.), F.R.S.C.
Professor of Medicine, Director of the Department, Director of the University Medical Clinic. 61 Rosemount Ave., Westmount.

T. Vander Meerschen.
Instructor in Brass Wind Instruments. Conservatorium of Music.

G. C. Melhado, M.D.
Demonstrator in Obstetrics and Gynæcology. Medical Arts Bldg.

K. I. Melville, M.Sc., M.D.
Lecturer in Pharmacology. Biological Building.

D. L. MENDEL, M.D.
Demonstrator in Medicine. 403 St. Joseph Blvd. West.

J. H. MENNIE, Ph.D.
Assistant Professor of Chemistry. Macdonald College.

E. C. MENZIES, M.D.
Assistant Demonstrator in Psychiatry. Protestant Hospital, Verdun.

BERTHA MEYER, M.A.
Lecturer in German. 6 Hudson Ave., Westmount.

HON. MR. JUSTICE PIERRE-BASILE MIGNAULT, LL.D. (Laval and McGill).
Professor of Legal Ethics. 40 Golf Ave., Pointe Claire, Que.

A. MIGNOLET.
Instructor on the Flute. 1166 Mountain St.

G. GAVIN MILLER, M.Sc., M.D.
Assistant Demonstrator in Surgery. 1390 Sherbrooke St. W.

R. MILLINCHAMP, B.S.A.
Assistant in Agricultural Engineering. Macdonald College.

E. S. MILLS, B.Sc., M.D., M.Sc.
Demonstrator in Medicine. Medical Arts Building.

HARRIET MITCHELL, B.A., R.N.
Special Lecturer in the School for Graduate Nurses.
Canadian National Committee for Mental Hygiene.

W. T. B. MITCHELL, M.B.
Assistant Professor of Mental Hygiene. 531 Pine Ave. West.

M. L. MOAG, R.N.
Special Lecturer in the School for Graduate Nurses.
Victorian Order of Nurses, Montreal.

C. F. MOFFATT, B.A., M.D.
Lecturer in Medicine. 1455 Crescent St.

LORNE C. MONTGOMERY, M.D.
Demonstrator in Medicine. Medical Arts Building.

ALEXANDER B. J. MOORE, Ph.G., L.P.A.
Head of the Department of Pharmacy and Professor of Materia Medica and Pharmacy. Medical Building.

C. H. P. MOORE, D.D.S.
Clinical Demonstrator in Dentistry. 1117 St. Catherine St. West.

W. H. MOORE, B.Sc.
Demonstrator in Physics. Physics Building.

A. G. MORPHY, B.A., M.D.
Demonstrator in Psychiatry. 1648 Sherbrooke St. West.

CAMPBELL MORRIS, B.S.A., D.D.S.
Lecturer in Dental History, Ethics and Economics. 14 Phillips Sq.

C. M. MORSSEN.
Research Fellow in Civil Engineering. Engineering Building.

N. W. MORTON, B.A.
Demonstrator in Psychology. Arts Building.

E. V. Murphy, B.A., M.D.
Demonstrator in Medicine. Alexandra Hospital.

R. Birkett Musgrove, F.R.C.O.
Lecturer in Music. Macdonald College.

Gordon A. Neilson.
Demonstrator in Architecture. Engineering Building.

A. R. Ness, B.S.A.
Assistant Professor of Animal Husbandry. Macdonald College.

W. C. Nicholson, B.A., B.C.L.
Lecturer in Commercial Law. 16 Vendome Ave.

Algy S. Noad, M.A.
Assistant Professor of English. 2320 Comte St.

Percy E. Nobbs, M.A. (Edin.), F.R.I.B.A., F.R.A.I.C., R.C.A.
Professor of Design. 38 Belvedere Road, Westmount.

Harry Norris.
Instructor in Violin and Viola. Conservatorium of Music.

J. Appleton Nutter, B.A., M.D., C.M., F.A.C.S., F.R.C.S. (Can.).
Clinical Professor of Orthopædic Surgery.

Horst Oertel, M.D. 411 Medical Arts Building.
Strathcona Professor of Pathology and Director of the Pathological Institute. Pathological Institute.

M. Ondereet.
Instructor in Violin and Viola. Conservatorium of Music.

John J. O'Neill, M.Sc., Ph.D. (Yale), F.R.S.C.
Dawson Professor of Geology and Director of the Department. 489 Grosvenor Ave., Westmount.

F. F. Osborne, Ph.D.
Assistant Professor of Geology. Chemistry and Mining Building.

Charles F. Pascoe, F.C.I.C.
Special Lecturer in Metallurgy. 4129 Dorchester St. West.

Frank Stewart Patch, B.A., M.D.
Clinical Professor of Urology. 1225 Bishop St.

Ivan Patrick, B.A., M.D.
Demonstrator in Obstetrics and Gynæcology.

R. H. Patten, B.Sc. 5021 Sherbrooke St. West.
Assistant Professor of Mechanical Engineering. Engineering Bldg.

W. J. Patterson, B.A., M.D., F.A.C.S.
Lecturer in Orthopædic Surgery. Medical Arts Building.

Donald R, Patton, B.Com., C.A.
Lecturer in Accountancy. Arts Building.

Frank G. Pedley, B.A., M.D., Dr. P.H.
Assistant Professor of Industrial Hygiene.

A. L. Peiker, M.Sc. Montreal General Hospital.
Demonstrator in Chemistry. Chemistry Building.

WILDER G. PENFIELD, Litt.B. (Princeton), M.D. (Johns Hopkins), B.A., B.Sc. and M.A. (Oxon.).
Clinical Professor of Neurological Surgery.

ELEANOR S. PERCIVAL, B.A., M.D. 200 Côte St. Antoine Road.
Demonstrator in Obstetrics and Gynæcology.

1374 Sherbrooke St. West.
C. A. PETERS, D.S.O., M.D., M.R.C.S., L.R.C.P.
Assistant Professor of Medicine. 1462 Bishop St.

J. N. PETERSEN, B.Sc., M.D.
Demonstrator in Neurology. Medical Arts Building.

BESSIE M. PHILP.
Head of the School of Household Science. Macdonald College.

MRS. KATHLEEN PINHEY, M.Sc.
Lecturer in Zoology. Biological Building.

A. HOWARD PIRIE, B.Sc., M.D.
Lecturer in Radiology. Royal Victoria Hospital.

LUCIEN PLAMONDON.
Instructor in Violoncello. Conservatorium of Music.

ALEXANDER JAMES DOW PORTEOUS, M.A. (Edin. and Oxon.).
Associate Professor of Philosophy. Arts Building.

C. A. PORTEOUS, M.D.
Clinical Professor of Psychiatry. Verdun Protestant Hospital.

RALPH E. POWELL, B.A., M.D., F.R.C.S. (Edin.), F.A.C.S.
Lecturer in Urology. 1486 Crescent St.

R. M. H. POWER, M.D.
Demonstrator in Anatomy. 1610 Sherbrooke St. West.

A. F. PRICE, B.Sc.
Demonstrator in Chemistry. Chemistry Building.

J. E. PRICHARD, M.D.
Lecturer in Pathology. Montreal General Hospital.

MRS. PROBYN.
Instructor in Double Bass. Conservatorium of Music.

L. I. PUGSLEY.
Research Fellow in Biochemistry. Biological Building.

H. T. PYE.
Instructor in Laboratory Technique. Physics Building.

WILLIAM CONWAY QUAYLE, B.Sc., M.A.
Assistant Professor of Physics. Macdonald College.

I. M. RABINOWITCH, M.D., C.M., F.R.C.P. (Can.).
Assistant Professor of Medicine and Lecturer in Biochemistry. Montreal General Hospital.

VIOLET B. RAMSAY.
Lecturer in Primary Methods and Nature Study.
Macdonald College.

G. A. Stuart Ramsey, B.A., M.D.
Assistant Demonstrator in Ophthalmology. 1496 Mountain St.

L. C. Raymond, M.S.
Assistant Professor of Agronomy. Macdonald College.

May Reid, B.A.
Assistant Director of Social Case Work.
School for Social Workers.

Herschell E. Reilley, M.Sc.
Associate Professor of Physics. 120 Easton Ave., Montreal West.

Lawrence J. Rhea, B.Sc., M.D.
Associate Professor of Pathology. Montreal General Hospital.

W. L. Ritchie, M.B.
Lecturer in Dental Radiology. Montreal General Hospital.

Harold J. Roast, F.C.S., F.C.I.C.
Sessional Lecturer in Metallurgy.
Box 2392, General Post Office, Montreal.

E. E. Robbins, D.V.S., M.D.
Demonstrator in Medicine. 5770 Durocher Ave., Outremont.

A. R. Roberts, M.Sc.
Professor of Mechanical Engineering. Engineering Building.

J. T. Rogers, B.A., M.D.
Demonstrator in Oto-Laryngology. 1538 Sherbrooke St. West.

G. Romano.
Instructor on the Clarionet. Conservatorium of Music.

Ruth B. Rorke, B.H.S.
Lecturer in Foods and Cookery. Macdonald College.

J. Rosenbaum, M.D.
Assistant Demonstrator in Ophthalmology.
Medico-Dental Building, 1396 St. Catherine St. West.

A. Ross, M.C., B.A., M.D.
Demonstrator in Anatomy and Assistant Demonstrator in Surgery. 5027 Sherbrooke St. West.

D. A. Ross, B.Sc.
Demonstrator in Physiology. Biological Building.

Dudley E. Ross, M.Sc., M.D.
Demonstrator in Anatomy and Assistant Demonstrator in Surgery. Medical Arts Building.

James B. Ross, M.D.
Demonstrator in Pharmacology. 719 Medical Arts Building.

S. Graham Ross, D.S.O., B.A., M.D., M.R.C.P. (Lond.).
Lecturer in Pediatrics. 704 Medical Arts Building.

W. Rowles, Ph.D.
Assistant Professor of Physics. Macdonald College.

W. W. Ruddick, M.D.
Demonstrator in Anatomy. 1499 Crescent St.

COLIN K. RUSSEL, B.A., M.D.
Clinical Professor of Neurology. 900 Sherbrooke St. West.

W. P. SAWYER, B.Sc., M.Sc.
Demonstrator in Chemistry. Chemistry Building.

GEORGE W. SCARTH, M.A.
Professor of Botany. Biological Building.

W. H. SCHIPPEL, B.Sc.
Lecturer in Electrical Engineering. Engineering Building.

F. R. SCOTT, B.A. (Bishop's and Oxon.), B.Litt. (Oxon.), B.C.L.
Associate Professor of Constitutional and Federal Law. Law Building.

J. W. SCOTT, M.D.
Assistant Professor of Bio-Chemistry. 418 Claremont Ave.

F. A. C. SCRIMGER, V.C., B.A., M.D., F.A.C.S.
Lecturer in Surgery. Medical Arts Building.

JESSIE BOYD SCRIVER, B.A., M.D.
Demonstrator in Pediatrics. Royal Victoria Hospital.

W. DEM. SCRIVER, B.A., M.D.
Demonstrator in Pharmacology and in Medicine. Royal Victoria Hospital.

MRS. ELIZABETH A. SEFEROVITCH, M.A.
Lecturer and Tutor in Classics (R.V.C.). 1053 Mount Royal Blvd.

H. N. SEGALL, M.D.
Assistant Demonstrator in Medicine. Medical Arts Building.

M. I. SENG, M.D.
Demonstrator in Urology. Medical Arts Building.

P. F. SEYMOUR, C.A.
Lecturer in Accountancy. 127 Board of Trade Building.

ETHEL M. SHARPE, R.N.
Lecturer in Teaching in Nursing Schools. Royal Victoria Hospital.

A. NORMAN SHAW, M.A. (Cantab.), D.Sc., F.R.S.C.
Professor of Physics. Physics Building.

MISS D. SHEARWOOD-STUBINGTON, A.R.C.M.
Instructor in Pianoforte. Lecturer in the Art of Teaching. Conservatorium of Music.

DOROTHY SIEVWRIGHT.
Lecturer in History and Geography. Macdonald College.

P. G. SILVER, B.Sc., M.D.
Demonstrator in Anatomy and Assistant Demonstrator in Surgery. 1414 Drummond Street.

BARUCH SILVERMAN, M.D.
Demonstrator in Mental Hygiene. 531 Pine Ave.

J. C. SIMPSON, B.Sc.
Professor of Histology and Embryology and Secretary of the Faculty of Medicine. 313 Hampton Ave.

ZERADA SLACK, B.A., Dip. M.S.P.E.
Assistant Physical Director for Women. Royal Victoria College.

DAVID SLIGHT, M.B., Ch.B., D.P.M., R.C.P. and S. (London, Eng.).
Assistant Professor of Psychiatry. Royal Victoria Hospital.

ELIZABETH L. SMELLIE.
Special Lecturer in the School for Graduate Nurses.
Victorian Order of Nurses, Montreal.

ARTHUR I. SMITH, B.A., B.C.L.
Lecturer in Commercial Law (School of Commerce).

JAMES SMYTH, B.A., LL.D., D.D. 275 St. James St.
Special Lecturer in Hellenistic Greek. 3508 University St.

MARGARET L. SMYTH, B.A.
Assistant in Sociology. Arts Building.

JOHN FERGUSON SNELL, B.A., Ph.D. (Cornell), F.C.I.C., F.A.A.A.S.
Professor of Chemistry. Macdonald College.

JANE D. SPIER, M.Sc.
Instructor in Botany. Biological Building.

J. B. SPIERS, L.A.R.M., A.R.C.M.
Instructor in Pianoforte. Conservatorium of Music.

GORDON ST. GEORGE SPROULE, M.Sc.
Assistant Professor of Metallurgy. 39 Thornhill Ave., Westmount.

CARLETON W. STANLEY, B.A. (Toronto), M.A. (Oxon.).
Professor of Greek. 208 Portland Ave., Town of Mt. Royal.

ALFRED STANSFIELD, D.Sc. (London), A.R.S.M., F.R.S.C.
Birks' Professor of Metallurgy. 82 Westmount Blvd.

G. A. STANTON, L.R.A.M.
Instructor in School Class Music. Conservatorium of Music.

T. A. STARKEY, M.B. (Lond), D.P.H. (Lond.), M.D., C.M. (ad eun., McGill), M.R.C.S. (Eng.), L.R.C.P. (Lond.), Fellow Royal San. Inst.
Strathcona Professor of Hygiene. 3591 University St.

E. W. R. STEACIE, M.Sc., Ph.D.
Assistant Professor of Chemistry. Chemistry Building.

R. L. STEHLE, M.A., Ph.D.
Professor of Pharmacology and Chairman of the Department. Biological Building.

A. STEWART, M.D.
Demonstrator in Anatomy and Surgery. 1538 Sherbrooke St. West.

C. C. STEWART, M.D.
Lecturer in Dental Anæsthesia. Montreal General Hospital.

R. CAMERON STEWART, B.Sc. (Arts), M.D.
Demonstrator in Pediatrics. 1240 Côte St. Antoine Road.

ALICE M. STICKWOOD, B.S., M.A.
Lecturer in Dietetics and Institution Administration.
Macdonald College.

R. R. STRUTHERS, B.A., M.D.
Lecturer in Pediatrics. Medical Arts Building.

M. G. STURROCK, M.Sc.
Demonstrator in Chemistry. Chemistry Building.

R. M. SUGARS, M.A., A.I.A., C.P.A.
Director-Secretary of the School of Commerce and Associate Professor of Spanish. Arts Building.

CHARLES T. SULLIVAN, B.A. (Dal.), Ph.D. (Chicago), D.Sc., F.R.S.C.
Peter Redpath Professor of Pure Mathematics and Joint Chairman of the Department. Engineering Building.

NORA SULLIVAN, B.A.
Assistant in English. Arts Building.

ROBERT SUMMERBY, M.S.A.
Professor of Agronomy. Macdonald College.

HON. MR. JUSTICE E. FABRE SURVEYER, B.A., LL.M. (Laval), B.C.L.
Professor of Criminal Law and Procedure. 128 Maplewood Ave., Outremont.

COLIN SUTHERLAND, B.A. (Dal.), M.D.
Demonstrator in Medicine. 1509 Sherbrooke St.

GEORGE M. TAIT, B.S.A.
Assistant in Horticulture. Macdonald College.

JOHN TAIT, M.D., D.Sc., F.R.S.E., F.R.S.C.
Joseph Morley Drake Professor of Physiology. Biological Building.

WILLIAM D. TAIT, B.A. (Dal.), M.A. and Ph.D. (Harvard).
Professor of Psychology, Chairman of the Department and Director of the Psychological Laboratory. 264 Regent Ave.

HERBERT TATE, B.Sc. (N.U.I.), M.A. (Trinity Coll. Dublin).
Assistant Professor of Mathematics. 307 Rosedale Ave.

BERTRAM W. TAYLOR, B.Sc.
Demonstrator in Zoology. Biological Building.

F. J. TEES, M.C., B.A., M.D.
Lecturer in Surgery. 320 Medical Arts Building.

ALEXANDER MACKENZIE THOMPSON, M.A. (Queen's), Ph.D. (Harvard).
Associate Professor of Classics. Arts Building.

F. C. THOMPSON, D.D.S.
Clinical Demonstrator in Dentistry. Medical Arts Building.

ROBERT R. THOMPSON, M.C., V.D., A.C.A. (England and Wales), C.A. (Canada).
Professor of Accountancy, Business Organization and Scientific Management. 487 Argyle Ave., Westmount.

DAVID L. THOMSON, B.Sc., M.A., Ph.D.
Assistant Professor of Biochemistry. 4435 Sherbrooke St. West.

F. C. Thomson, D.D.S.
Clinical Demonstrator in Dentistry. Medical Arts Building.

Lesslie R. Thomson, B.A.Sc., M.E.I.C., M.I.C.E., M.Am. Soc. C.E.
Professor of Fuel Engineering and Special Lecturer in Structural Engineering New Birks Building.

C. J. Tidmarsh, M.A., M.D.
Assistant Demonstrator in Medicine and Pharmacology. 1390 Sherbrooke St. W.

F. T. Tooke, B.A., M.D.
Clinical Professor of Ophthalmology. 1482 Mountain St.

Ramsay Traquair, M.A., F.R.I.B.A.
Macdonald Professor of Architecture. Engineering Building.

Orville Trenary.
Lecturer in Agricultural Engineering. Macdonald College.

G. E. Tremble, M.D., C.M., D.L.O.R., C. of P. and R. C. of S. (Eng.).
Assistant Demonstrator in Oto-Laryngology.

R. de H. Tupper. 1390 Sherbrooke St. West.
Instructor in Bassoon and Secretary of the Conservatorium of Music. 677 Sherbrooke St. West.

Philip J. Turner, F.R.I.B.A.
Special Lecturer in Building Construction, Specification and Professional Practice. 1100 Beaver Hall Hill.

William George Turner, M.C., B.A., M.D., M.R.C.S. (Eng.).
Clinical Professor of Orthopædic Surgery. 900 Sherbrooke St. W.

Henry G. Tuttle.
Assistant in Sociology. Arts Building.

Orville Sievwright Tyndale, M.A., B.C.L., K.C.
Professor of Civil Procedure. 115 Sunnyside Ave., Westmount.

J. B. Van der Veer, M.D. (Iowa.).
Assistant Demonstrator in Pharmacology and in Medicine. 1390 Sherbrooke St. West.

F. M. Van Wagner, B.P.E.
Track Coach and Assistant Physical Director. 3484 University St.

Harriet Van Wart, B.H.S.
Lecturer in Foods and Cookery. Macdonald College.

Mrs. Walter Vaughan, M.A.
Acting Warden of The Royal Victoria College. The Royal Victoria College.

Paul Villard, M.A., D.D., M.D., Officier de l'Instruction Publique.
Associate Professor of French. 17 Vendome Ave.

Norman Viner, B.A., M.D.
Demonstrator in Neurology. 1396 St. Catherine St.

ETHEL WAIN, Dip. M.S.P.E.
Assistant Physical Director for Women.
School of Physical Education.

ARNOLD WAINWRIGHT, B.A., B.C.L., K.C.
Professor of the Law of Evidence. 4 Seaforth Ave.

A. H. WALKER.
Instructor in Floriculture. Macdonald College.

J. J. WALKER, B.A., M.D.
Demonstrator in Medicine. Medical Arts Building.

G. A. WALLACE, M.Sc.
Associate Professor of Electrical Engineering. Engineering Bldg.

A. L. WALSH, D.D.S.
Associate Professor of Operative Dentistry and Director of the Dental Clinic. Montreal General Hospital.

HERMANN WALTER, M.A. (Edin.), Ph.D. (Munich).
Professor of German. Arts Building.

V. C. WANSBROUGH.
Assistant in History. Arts Building.

R. VANCE WARD, M.D.
Demonstrator in Industrial Hygiene. 1060 Bernard Ave. West.

E. E. WATSON, M.Sc.
Demonstrator in Physics. Physics Building.

H. G. I. WATSON, B.A. (Tor.), M.Sc.
Lecturer in Physics. Physics Building.

THEO. R. WAUGH, M.A., M.D.
Assistant Professor of Pathology. Pathological Institute.

W. T. WAUGH, M.A., F.R.S.C.
Kingsford Professor of History and Chairman of the Department. 1544 Mackay St.

JOHN J. WEATHERSEED.
Instructor in Pianoforte and Organ. Conservatorium of Music.

JAMES WEIR, B.Sc.
Assistant Professor of Geodesy. Engineering Building.

FRED. E. WELDON.
Dawson Research Fellow in Mining Engineering.
Chemistry and Mining Building.

JOSEPH W. WELDON, B.A., LL.B. (Dal.), K.C.
Lecturer in Engineering Law. 355 Olivier Ave., Westmount.

E. HAMILTON WHITE, B.A., M.D.
Lecturer in Oto-Laryngology. 1610 Sherbrooke St. W.

ALFRED E. WHITEHEAD, Mus. Doc., F.R.C.O.
Lecturer in Music and Instructor in Organ. 456 Pine Ave. West.

W. E. Whitehead, B.S.A.
Assistant in Entomology. Macdonald College.

J. C. Wickham, B.A., M.D.
Demonstrator in Medicine. 4484 Sherbrooke St., Westmount.

S. Ernest Whitnall, M.A., M.D., B.Ch. (Oxon.), M.R.C.S. (Eng.), L.R.C.P. (Lond.).
Robert Reford Professor of Anatomy. Medical Building.

J. C. Wickham, B.A., M.D.
Demonstrator in Medicine. 4484 Sherbrooke St., Westmount.

Arthur Willey, Hon. M.A. (Cantab.), D.Sc., F.R.S.
Strathcona Professor of Zoology. 1648 Sherbrooke St. West.

W. E. Williams, M.D.
Demonstrator in Pediatrics. 1834 Park Ave.

W. L. G. Williams, M.A. (Oxon.), Ph.D. (Chicago).
Associate Professor of Mathematics. Engineering Building.

John T. Williamson.
LeRoy Fellow in Geology, 1929-30. Chemistry and Mining Building.

N. T. Williamson, M.D.
Demonstrator in Orthopædic Surgery. Medical Arts Building.

K. A. Wilson, C.A.
Lecturer in Commercial Law. 275 St. James St.

A. R. Winn, B.Sc., D.D.S.
Clinical Demonstrator in Orthodontia. 1240 Phillips Square.

F. M. Wood, B.Sc., M.A.
Assistant Professor of Civil Engineering and Applied Mechanics. Engineering Building.

William Dudley Woodhead, Ph.D.
Hiram Mills Professor of Classics and Chairman of the Department. 241 Ballantyne Ave. North, Montreal West.

H. P. Wright, B.A., M.D.
Lecturer in Pediatrics. 40 Trafalgar Ave.

Eric R. Wykes, B.Sc.
LeRoy Fellow in Geology. Chemistry and Mining Building.

C. F. Wylde, C.B., M.D.
Honorary Medical Librarian. 1461 Crescent St.

A. W. Young, M.D.
Lecturer in Neuropathology and Psychiatry. 1390 Sherbrooke St. W.

ACADEMIC YEAR, 1929-30

SEPTEMBER, 1930

1	Monday	
2	Tuesday	Summer Schools in Chemical, Metallurgical, and Mechanical Engineering begin.
3	Wednesday	Field Work begins in the Schools for Social Workers and Graduate Nurses. Last day for filing Grad. School Theses for the Autumn Convocation.
4	Thursday	
5	Friday	
6	Saturday	
7	**SUNDAY**	
8	Monday	Last day for receiving applications for the Matriculation Examination.
9	Tuesday	
10	Wednesday	Register opens for Students in Physical Education. Autumn Examinations in Medicine.
11	Thursday	Register opens for Students in Medicine and Dentistry.
12	Friday	Physical Education Hostel opens.
13	Saturday	
14	**SUNDAY**	
15	Monday	Matriculation Examination begins. Exhibition, Scholarship and Supplemental Examinations in Arts. Conservatorium of Music and School of Physical Education open. Summer School in Surveying begins.
16	Tuesday	
17	Wednesday	Lectures begin in Medicine and Dentistry.
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	Register opens for Students in Law, the School for Social Workers, First Year Applied Science and others in Applied Science who have no conditions.
25	Thursday	
26	Friday	Registration of Students in Arts and Commerce.
27	Saturday	Registration of Students in Arts and Commerce.
28	**SUNDAY**	
29	Monday	
30	Tuesday	Registration of Students in Arts, Commerce and the Library School. Registration of Students in Arts, Commerce, Applied Science and the Library School.

OCTOBER, 1930

1	Wednesday	Lectures begin in Arts, Applied Science, Law, the Library School, and the Schools for Social Workers and Graduate Nurses.
2	Thursday	Meeting of the McCord Museum Committee.
3	Friday	
4	Saturday	
5	**SUNDAY**	
6	Monday	Founder's Day. General Convocation for Conferring Degrees. Opening Address for the Session. Register closes in Medicine. Meeting of the Faculty of Applied Science.
7	Tuesday	Library Committee Meeting.
8	Wednesday	Regular Meeting of Corporation. Last day for receiving applications in the Graduate School.
9	Thursday	Summer Essays in Applied Science to be sent in.
10	Friday	
11	Saturday	
12	**SUNDAY**	
13	Monday	
14	Tuesday	
15	Wednesday	Examinations in French and German for Ph. D. students.
16	Thursday	
17	Friday	Sports Day. No Lectures.
18	Saturday	
19	**SUNDAY**	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	**SUNDAY**	
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	

NOVEMBER, 1930

1	Saturday	
2	**SUNDAY**	
3	Monday	Meeting of the Faculty of Applied Science.
4	Tuesday	
5	Wednesday	
6	Thursday	Meeting of the McCord Museum Committee.
7	Friday	
8	Saturday	
9	**SUNDAY**	
10	Monday	Thanksgiving Day. No Lectures.
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	**SUNDAY**	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	
25	Tuesday	Autumn term in Medicine ends.
26	Wednesday	Winter term in Medicine begins.
27	Thursday	
28	Friday	
29	Saturday	
30	**SUNDAY**	

DECEMBER, 1930

1	Monday	Meeting of the Faculty of Applied Science.
2	Tuesday	
3	Wednesday	
4	Thursday	Meeting of the McCord Museum Committee.
5	Friday	
6	Saturday	
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	Regular Meeting of Corporation.
11	Thursday	
12	Friday	
13	Saturday	
14	**SUNDAY**	
15	Monday	
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	Last day of lectures before Christmas.
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	Christmas Day.
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	
31	Wednesday	

JANUARY, 1931

1	Thursday	New Year's Day. Meeting of the McCord Museum Committee.
2	Friday	
3	Saturday	
4	**SUNDAY**	
5	Monday	Lectures resumed in all Faculties. Meeting of the Faculty of Applied Science.
6	Tuesday	Library Committee Meeting.
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	**SUNDAY**	
12	Monday	Examinations begin in Arts, Applied Science and the Library School.
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	Second Term opens in Arts, Applied Science, the Library School and the School for Social Workers.
17	Saturday	
18	**SUNDAY**	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	
24	Saturday	
25	**SUNDAY**	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	
31	Saturday	

FEBRUARY, 1931

1	**SUNDAY**	
2	Monday	Meeting of the Faculty of Applied Science.
3	Tuesday	
4	Wednesday	
5	Thursday	Meeting of the McCord Museum Committee.
6	Friday	
7	Saturday	
8	**SUNDAY**	
9	Monday	
10	Tuesday	Founder's Day, Macdonald College.
11	Wednesday	Regular Meeting of Corporation.
12	Thursday	First Students Recital in Music
13	Friday	
14	Saturday	
15	**SUNDAY**	
16	Monday	
17	Tuesday	Winter Term in Medicine ends.
18	Wednesday	Ash Wednesday. No lectures.
19	Thursday	Examinations in Medicine for First and Second Years. Spring term for Third, Fourth and Fifth Year begins.
20	Friday	
21	Saturday	
22	**SUNDAY**	
23	Monday	
24	Tuesday	
25	Wednesday	Spring term in Medicine for First and Second Year begins.
26	Thursday	
27	Friday	
28	Saturday	

MARCH, 1931

1	**SUNDAY**	
2	Monday	Meeting of the Faculty of Applied Science.
3	Tuesday	
4	Wednesday	
5	Thursday	Meeting of the McCord Museum Committee.
6	Friday	
7	Saturday	
8	**SUNDAY**	
9	Monday	
10	Tuesday	
11	Wednesday	
12	Thursday	Second Students' Recital in Music.
13	Friday	
14	Saturday	
15	**SUNDAY**	
16	Monday	
17	Tuesday	
18	Wednesday	
19	Thursday	
20	Friday	
21	Saturday	
22	**SUNDAY**	
23	Monday	
24	Tuesday	
25	Wednesday	
26	Thursday	
27	Friday	
28	Saturday	
29	**SUNDAY**	
30	Monday	
31	Tuesday	

APRIL, 1931

1	Wednesday	
2	Thursday	Meeting of the McCord Museum Committee.
3	Friday	Good Friday—No lectures.
4	Saturday	No lectures.
5	**SUNDAY**	Easter Sunday.
6	Monday	Meeting of the Faculty of Applied Science. No Lectures.
7	Tuesday	Library Committee Meeting.
8	Wednesday	Regular meeting of Corporation.
9	Thursday	
10	Friday	
11	Saturday	Second term lectures end in Architecture and the first three years Applied Science.
12	**SUNDAY**	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	Sessional Examinations begin in Architecture and the first three years Applied Science.
17	Friday	
18	Saturday	
19	**SUNDAY**	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	Third Students' Recital in Music.
24	Friday	
25	Saturday	Lectures end. Last day for filing Ph. D. theses.
26	**SUNDAY**	
27	Monday	Examinations in Fourth Year Applied Science.
28	Tuesday.	
29	Wednesday	Spring term ends for Third, Fourth and Fifth Years in Medicine. Last day for filing theses for Masters' degrees.
30	Thursday	Examinations begin in Arts. Examinations in Theory of Music at local centres.

MAY, 1931

1	Friday	
2	Saturday	
3	**SUNDAY**	
4	Monday	Meeting of the Faculty of Applied Science.
5	Tuesday	
6	Wednesday	Spring term ends in Medicine for Fi st and Second Years.
7	Thursday	Meeting of the McCord Museum Committee.
8	Friday	
9	Saturday	
10	**SUNDAY**	
11	Monday	Practical Examinations in Music begin.
12	Tuesday	
13	Wednesday	Last day for filing M.Sc. theses involving experimental work.
14	Thursday	
15	Friday	
16	Saturday	Last day of Lectures in Music. Session closes for First year students in Physical Education.
17	**SUNDAY**	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	Victoria Day
25	Monday	
26	Tuesday	Preliminary Examinations for Ph. D. degree.
27	Wednesday	
28	Thursday	
29	Friday	Convocation for Conferring Degrees.
30	Saturday	
31	**SUNDAY**	

JUNE, 1931

1	Monday	
2	Tuesday	
3	Wednesday	King's birthday.
4	Thursday	
5	Friday	
6	Saturday	
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	
12	Thursday	
12	Friday	
13	Saturday	Conservatorium closes.
14	**SUNDAY**	
15	Monday	Matriculation Examination begins
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	

JULY, 1931

1	Wednesday	Dominion Day
2	Thursday	
3	Friday	
4	Saturday	
5	**SUNDAY**	
6	Monday	
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	
12	**SUNDAY**	
13	Monday	
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	
19	**SUNDAY**	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	
25	Saturday	
26	**SUNDAY**	
27	Monday	
28	Tuesday	
29	Wednesday	
30	Thursday	
31	Friday	

AUGUST, 1931

1	Saturday	
2	**SUNDAY**	
3	Monday	
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	**SUNDAY**	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	
16	**SUNDAY**	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	
30	**SUNDAY**	
31	Monday	

McGill University

HISTORY AND CONSTITUTION

FOUNDATION AND HISTORY

McGill University owes its origin to a private endowment. It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling-house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that the Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of government education and to the refusal of the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate, but, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The charter was cumbrous and unwieldy, and unsuited for a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of

Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its reorganization and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

HISTORICAL CALENDAR

October	6, 1744	James McGill born.
January	8, 1811	Date of Will of Hon. James McGill, bequeathing to certain persons, for transfer to the Royal Institution for the Advancement of Learning, his Burnside property of 46 acres and £10,000 in money, for the founding of McGill College.
December	19, 1813	James McGill died.
March	31, 1821	Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College.
May	1, 1822	Montreal General Hospital opened for patients.
January	29, 1823	Charter granted to the Montreal General Hospital.
October	28, 1824	Lectures begun in the Montreal Medical Institution.
January	29, 1829	Venerable Archdeacon Mountain appointed Principal. Teaching begun in two Faculties, Arts and Medicine.
June	28, 1829	The Montreal Medical Institution became the Medical Faculty of McGill University.
April	1834	Principal Mountain resigned.
April	22, 1834	Rev. T. T. Uxford appointed Principal.
July	13, 1835	Principal Uxford resigned.
November	18, 1835	**Rev. John Bethune appointed Principal, pro tem.**
July	12, 1843	**Rev. John Bethune appointed Principal.**
July	7, 1846	Principal Bethune resigned.
July	7, 1846	Mr. Edward Allen Meredith appointed Principal.
	1848	Course in Law begun in the Faculty of Arts.
	1852	Amended Charter obtained.
February	1, 1853	Principal Meredith resigned.
February	1, 1853	Hon. Mr. Justice C. D. Day appointed Principal, pro tem.
	1853	Faculty of Law established.
September	8, 1855	Principal Day resigned.
September	8, 1855	Sir William Dawson appointed Principal.
	1856	Course in Engineering begun in the Faculty of Arts.

October	10, 1862	William Molson Hall opened.
	1863	Observatory opened.
	1864	Congregational College of Canada opened in Montreal and affiliated to McGill University. (This College had been founded in Dundas, Ontario, in 1839.)
	1865	Montreal Presbyterian College founded. (Work begun in the Lecture Hall of Erskine Church, corner of St. Catherine and Windsor Streets.)
	1870	Courses of lectures by McGill Professors established for women.
	1871	Engineering Course amplified into the Department of Practical Science in the Faculty of Arts.
	1872	Work of the Faculty of Medicine transferred from their downtown quarters to the McGill Campus.
	1873	Diocesan College founded.
	1873	First Montreal Presbyterian College Building erected.
	1875	Wesleyan Theological College opened.
	1878	Faculty of Applied Science organized.
	1879	Wesleyan Theological College affiliated to McGill University.
	1880	Diocesan College affiliated to McGill University.
August	16, 1882	Peter Redpath Museum opened.
	1882	Presbyterian College enlarged by the erection of the David Morrice Hall.
	1883	Old Wesleyan Theological College erected.
	1884	Congregational College Buildings on McTavish St. opened. (From 1864 to 1884 the work of the College had been carried on first in Zion Church and afterwards in Emmanuel Church.)
	1884	Women admitted to courses in Arts leading to degrees, under the Donalda endowment.
February	24, 1893	Macdonald Physics and Engineering Buildings opened.
July	31, 1893	Sir William Dawson resigned the Principalship.
October	31, 1893	Redpath Library opened.
	1894	Observatory enlarged.
	1894	Royal Victoria Hospital opened.
August	7, 1895	**Sir William Peterson appointed Principal.**
	1895	A tract of about 35 acres, comprising the top of Westmount Mountain, purchased and donated to the University by Sir William Macdonald.

1896	Present Montreal Diocesan College Buildings opened.
1896	Department of Architecture established.
December 20, 1898	Macdonald Chemistry and Mining Building opened
September 4, 1899	Royal Victoria College for women opened.
November 18, 1899	Sir William Dawson died.
September 18, 1901	Strathcona Medical Building opened.
1903	Dental Department opened in connection with the Faculty of Medicine.
October 14, 1904	Conservatorium of Music opened.
1905	Strathcona Hall opened. (This is the home of the Students' Christian Association of McGill University.)
1905	The Medical Faculty of Bishop's College amalgamated with McGill.
1906	McGill Union (the students' social centre) opened.
1906	Department of Commerce established under the Faculty of Arts.
April 5, 1907	Macdonald Engineering Building burned.
" 16, 1907	Medical Building burned.
" 24, 1907	Faculty of Agriculture established.
November 5, 1907	Macdonald College opened.
April 27, 1909	New Engineering Building opened.
1909	Power Plant erected.
1909	Joseph property, at the south-west corner of the McGill Campus, purchased and donated to the University by Sir William Macdonald.
June 5, 1911	New Medical Building opened.
July 4, 1911	Gift of Frothingham, Molson and Law properties (25 acres) from Sir William Macdonald.
November 20-24, 1911	$1,500,000.00 raised chiefly from the citizens of Montreal as a general endowment for the University.
1912	Montreal Co-operating Theological Colleges established. (This was a union of the Congregational, Diocesan, Presbyterian and Wesleyan Colleges for a certain number of lecture courses.)
1912	McGill School of Physical Education established.
1913	New Wesleyan Theological College opened.
1915	McGill Stadium completed. (This was erected on Macdonald Park, which was donated to the University by Sir William Macdonald in 1911.)

	1917	Montreal College of Pharmacy incorporated with McGill University as the Department of Pharmacy of the Faculty of Medicine.
February	25, 1918	Gift of $1,000,000 from the Carnegie Corporation of New York "in recognition of the noble and devoted service and sacrifice of McGill towards Canada's part in the Great War."
May	1, 1918	Sir William Peterson resigned the Principalship on account of ill-health.
	1918	Department of Social Science established.
October	25, 1919	Name of the McGill Stadium changed to "The Percival Molson Stadium" and formally dedicated to the memory of the late Percival Molson, who was killed in the Great War and who bequeathed $75,000 for its erection.
	1919	Faculty of Dentistry established.
	1920	Faculty of Music established.
	1920	School for Graduate Nurses established.
August	1, 1920	Sir Arthur Currie appointed Principal.
November	15-20, 1920	Over $4,000,000 subscribed by citizens of Montreal and graduates for the funds of the University; and $1,000,000 granted for the same purpose by the Government of the Province of Quebec, and $1,000,000 by the Rockefeller Foundation of New York for medical education.
January	4, 1921	Sir William Peterson died.
October	26, 1922	Biological Building opened.
June	5, 1924	Gift of $500,000 from the Rockefeller Foundation for the purpose of establishing a medical clinic.
October	6, 1924	Pathological Institute opened.
May	28, 1925	Roddick Memorial Gates opened.
	1926	Opening of the Royal Victoria-Montreal Maternity Pavilion.
October	6, 1926	Opening of the reconstructed Arts Building (McGill College).
January	25, 1929	Opening of the Pulp and Paper Building.

GOVERNMENT OF THE UNIVERSITY

By the Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by his Excellency the Governor-General of Canada, for the time being, as **Visitor**. This

is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five. Three of these are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is ex-officio Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member ex-officio). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (49 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows together constitute the **Corporation,** the highest academical body. Its powers are fixed by statute and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The carrying out of the regulations of Corporation, along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School for Teachers. Courses leading to the Bachelor's and Master's degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in agriculture, as well as the course in domestic science, are under the direction of the Executive Committee of Macdonald College, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. Full information is given in the Macdonald College Announcement, which will be sent on application to the Registrar, Macdonald College, Que.

The Royal Victoria College is the women's College of McGill University for courses in the Faculty of Arts. For further particulars, see pages 228 to 233.

AFFILIATED COLLEGES

Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier College are affiliated to McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted directly to the Third Year in any of the engineering courses in the Faculty of Applied Science.

Students from these universities entering the Third Year must take the summer school suitable to their course, in May, or the special school in September, which will open in 1930 on September 2nd, in Chemical, Mechanical and Metallurgical Engineering and on September 15th in Civil and Mining Engineering.

Royal Military College.—Graduates of the Royal Military College of Kingston, when specially recommended by the Director of Studies of that Institution, are admitted to the Fourth Year in the Civil Engineering Course and to the Third Year in the other engineering departments of the Faculty of Applied Science. They must in all cases take the respective summer schools pertaining to these several courses, which are held in September, as per the preceding paragraph.

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of Applied Science under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal.—Principal, Rev. James Smyth, B.A., D.D., LL.D., 3506 University St.

The Diocesan College of Montreal.—Principal, Rev. G. Abbott-Smith, M.A., D.D., D.C.L., 3473 University St.

The Presbyterian College, Montreal.—Principal, Rev. F. Scott McKenzie, M.A., 3489 McTavish St.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

AFFILIATION TO OTHER UNIVERSITIES

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year sessional examination in Arts, to pursue his studies and take his degree at any of these universities on a reduced period of residence.

FACULTIES, COURSES AND DEGREES

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal; and also in Macdonald College at Ste. Anne de Bellevue.

COURSES FOR DEGREES AND DIPLOMAS

The several courses offered by the University are as follows:—

In McGill College.

For the degree of Bachelor of Arts (B.A.).
" " " " Bachelor of Science (B.Sc.).
" " " " Bachelor of Commerce (B.Com.).

The undergraduate courses of study which lead to the degree of B.A. or B.Sc. extend over four sessions of eight months each. In the Second, Third and Fourth Years extensive options are provided. (See pages 150 to 155.)

The course for the degree of Bachelor of Commerce extends over four years. (Full information is given on pages 237 to 256.)

The degrees of B.Sc. and M.D. can be obtained in eight years.

The courses in Arts are open to women (who are educated mainly in separate classes) on equal terms with men. Residential accommodation for women students is provided in the Royal Victoria College. Further particulars are given on pages 228 to 233.

Holders of the degree of B.A. from this University are admitted to the study of the learned professions, without preliminary examination, in the different provinces of Canada, and in Great Britain and Ireland, and elsewhere.

Candidates for the degree of B.A., B.Sc., or B.Sc. in Agriculture, can qualify, on graduation, for a First Class High School, or a Specialists' Diploma, as the case may be, by taking in their course, the subjects required by the Department of Education for these diplomas and by doing the practice teaching which the law demands (see pages 180 to 182).

In the Faculty of Applied Science.

For the degree of Bachelor of Architecture (B. Arch.).

For the degree of Bachelor of Science (B.Sc.), in the departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering.

The undergraduate courses of study for the degree of B.Sc. extend over four sessions averaging (with summer sessions) about eight months each, and provide a thorough professional training in the departments mentioned above. Candidates for entrance must pass the Senior Matriculation Examination in certain subjects, or complete one year in the Faculty of Arts. (See page 95). The course for the degree of B. Arch, extends over five years. Particulars are given on pages 261-263 and 284–290.

In the Faculty of Law.

For the degree of Bachelor of Civil Law (B.C.L.).

The undergraduate course for this degree extends over three sessions of eight months each.

In the Faculty of Medicine.

For the degree of Doctor of Medicine and Master of Surgery (M.D., C.M.).

For the Diploma of Public Health.

For the Diploma of Pharmacy.

The undergraduate course of study leading to the degree of M.D., C.M., extends over five sessions of eight months each, following two pre-medical years in the Faculty of Arts. Further information will be found on pages 344 to 397.

In Macdonald College.

For the degree of Bachelor of Science in Agriculture (B.Sc. in Agriculture and B.S.A.).

Other courses in the School of Agriculture.

For the degree of Bachelor of Household Science (B.H.S.).

Other courses in the School of Household Science.

The several courses for teachers' diplomas.

The course of study for the degree of Bachelor of Science in Agriculture extends over four sessions of about eight months each. It aims to provide a thorough theoretical and practical training in the several branches of the science.

The Macdonald College Announcement, containing full details as to buildings, courses, terms of admission, fees, etc., can be obtained from the Registrar, Macdonald College P.O., Que.

In the Faculty of Dentistry.

For the degree of Doctor of Dental Surgery (D.D.S.).

The undergraduate course of study leading to the degree of D.D.S. extends over four sessions of eight months each, following two pre-dental years in the Faculty of Arts. (For further particulars, see pages 406 to 419.)

In the Faculty of Music.

For the degree of Bachelor of Music (Mus. Bac.).

For the Diploma of Licentiate in Music, and the several Grade examination certificates.

Students are admitted as *Regular Students* taking an organized course leading to the diploma of Licentiate in Music or the degree of Bachelor of Music or as *Partial Students,* who, under certain conditions and after examination, can obtain certificates bearing the imprimatur of the University. Full details can be obtained on application to the Secretary of the McGill Conservatorium of Music, 677 Sherbrooke St. West, Montreal.

In the Faculty of Graduate Studies and Research.

For the degree of Master of Arts (M.A.), Master of Science (M.Sc.), Master of Science in Agriculture (M.S.A.), Master of Commerce, Doctor of Philosophy (Ph.D.), Doctor of Science (D.Sc.), Doctor of Literature (Litt.D.), Doctor of Civil Law (D.C.L.), and Doctor of Music (Mus. Doc.).

Full information as to admission and departments in which studies are offered will be found on pages 454 to 527.

School for Graduate Nurses.

Five courses, each covering an academic year, and leading to a certificate: (a) For Public Health Nursing; (b) Teaching in Schools of Nursing; (c) Supervision in Hospitals and Schools of Nursing; (d) Organization and Administration of Hospital Nursing Services; (e) Organization and Supervision of Nursing in the Community. (See pages 564 to 597.)

School of Physical Education.

Two-year course, leading to a diploma. Further particulars are given on pages 538 to 552.

School for Social Workers.

A Diploma Course extending over two years. See pages 553 to 563.

Department of Extra-Mural Relations.

Extra-Mural Courses in Montreal and elesewhere on subjects of general interest (Psychology, History, English, Mental Hygiene, etc.).

Courses carried on in co-operation with professional associations and leading to their diplomas (Chartered Institute of Secretaries, Canadian Credit Institute).

Lyceum Lectures (single lectures on special subjects) given to any group in the Province.

Lantern Lectures on many subjects sent out on request.

Reading courses supplied.

Winter course (October to May).

The announcement giving full details can be obtained on application.

Library School.

A one-year course, leading to a diploma. The University also offers a six weeks' summer course in library work, of the apprentice type, for assistants in smaller libraries.

Further information is given on pages 598-611.

Extension Courses.

Afternoon and evening lectures on a variety of subjects. A special announcement will be issued before the opening of the session.

ENTRANCE REQUIREMENTS

JUNIOR MATRICULATION

(For admission to the Faculties of Arts, Music, and Agriculture, and the Schools of Architecture and Physical Education.)

I. REGULATIONS

1. Junior Matriculation examinations are held in June and September—in June at McGill University and local centres; in September, at Montreal only.

ALL INQUIRIES RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 16th of June. Full information regarding the exact date of the examination, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., C.B.E., M.A., Secretary, Headmasters' Conference, 5 Paper Buildings, Temple, London, E.C. 4.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 133) one month before the examination begins. Blank forms may be obtained from the Registrar.

No application for the examination in June, at outside centres, will be received after May 15th.

3. In order to pass, a candidate must obtain 60 per cent of the aggregate for all subjects of the Matriculation Examination, and not less than 40 per cent in any paper; provided, however, that a candidate who makes an exceptionally high aggregate, but fails in one paper, only, may be admitted at the discretion of the Faculty, or School, concerned. The examination may be taken in parts, but it must be completed within sixteen months from the date of the first attempt. Subjects passed more than thirteen months before any June examination cannot therefore be counted to the credit of a candidate writing at that time. The September examination is considered merely as supplemental to that in June.

This regulation also applies in the case of certificates granted by other recognized examining bodies.

4. Matriculation certificates will be issued to candidates who have passed the examination conducted by the University, but not to those who have satisfied the greater part of the entrance requirements by means of certificates granted by other examining bodies.

5. The certificates and diplomas named below will (if they have been obtained under no easier conditions than those which apply in the case of the McGill Matriculation certificate) be accepted *pro tanto* in lieu of the Junior Matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the Matriculation Examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass in the subjects in which they are deficient under the provisions of Regulation 3.

Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificates they hold, as many may lack one or more essential subjects, or the work done in a subject may not be adequate, or again, the percentage gained may not be sufficiently high (see Regulation 3). When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.

Province of Quebec.

The High School Leaving Certificate.

The Intermediate School Diploma.

Beginning with the session 1931-32, candidates for Matriculation, attending schools or colleges in the Province of Quebec, will be required to pass the McGill Matriculation examination or the corresponding High School Leaving examination of the Province.

Province of Ontario.

Certificate of entrance to the Normal Schools.

Junior Matriculation Certificate.

Middle School Certificate.

Province of New Brunswick.

First Class, Superior and Grammar School Licenses.

Grade XI Certificate.

Province of Nova Scotia.

Grade XI Certificate.

Province of Prince Edward Island.

First Class Teachers' License.

Second Year Certificate of Prince of Wales College.

Province of British Columbia.

Grade XI Certificate.

Province of Manitoba.

Second Class Teachers' Certificate.
Grade XI Certificate.

Provinces of Alberta and Saskatchewan.

The Departmental Certificate of Standard XI.

Newfoundland

Junior Associate Grade Certificate.

United States.

Certificates granted by the College Entrance Examination Board and by the New York State Board of Regents.

Great Britain.

The School Certificate (with four or five credits) of:—

The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
Durham University.
Bristol University.
London University.

The certificate granted by the Joint Board of Examiners of the Scottish Universities.

Miscellaneous.

Other certificates, such as those issued by reputable universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

II. SUBJECTS OF EXAMINATION

For 1931

Faculty of Arts

A. *For admission to the B.A. course.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **Greek.**
4.	200	One of the following:— **Greek** *or* **Latin** (the one not already chosen); **French; German.**
5.	200	**Elementary Mathematics.**
6.	100	One of the following*:— **Botany; Chemistry; Physics; Music; Intermediate Mathematics†; a foreign language** not already chosen.
	Total 1,000	

B. *For admission to the B.Sc. course in Arts.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**French** *or* **German.**
4.	200	**Elementary Mathematics.**
5.	100	One of the following*:— **Botany; Chemistry; Physics.**
6.	200	**Latin** *or* **French** *or* **German** (whichever has not been already taken) *or* **Intermediate Mathematics†**; *or* any two of the subjects named under No. 5, not already taken, *or* one of these and **Drawing** *or* **Music** *or* one paper in **Intermediate Mathematics.**
	Total 1,000	

* When a science subject is selected under this head candidates are advised to choose Physics.

† Candidates who intend to enter Applied Science ultimately are advised to take this subject.

C. *For admission to the School of Commerce.*

The matriculation examination for the B.A. or the B.Sc. course in Arts, but in the case of the latter Spanish may be substituted for French or German.

Department of Architecture

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	One of the following:— **French; German; Spanish; Latin; Greek.**
4.	200	**Elementary Mathematics.**
5.	200	**Intermediate Mathematics.**
6.	100	One of the following*:— **Botany; Chemistry; Physics; a language** not already chosen.
	Total 1,000	

Candidates must also satisfy the Head of the Department as to their proficiency in Freehand and Geometrical Drawing. To this end they may send in specimens of their work before September 20th, or they may take an examination at the time of the regular matriculation examination in that month. No examinations taken elsewhere are accepted as an equivalent and no student will be admitted to the Department as an undergraduate until he has satisfied the requirements in this subject.

Faculty of Agriculture

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **French** *or* **German** *or* **Spanish** (French preferred).
4.	200	**Elementary Mathematics.**
5.	100	**Physics** *or* **Chemistry.**
6.	200	**Intermediate Mathematics,** *or* one of No. 3 not already taken *or* two to be chosen from **Botany, Physical Geography, Zoology, Drawing** and the subject not taken in No. 5.
	Total 1,000	

* When a science subject is selected under this head candidates are advised to choose Physics.

† Candidates who intend to enter Applied Science ultimately are advised to take this subject.

Candidates for admission to the B.S.A. degree course who have failed to complete the matriculation requirements may be allowed to enter the first year as conditioned undergraduates, provided that they have not failed in more than two papers. Except by special action of the faculty, no student will be permitted to carry a matriculation condition into the second year.

School of Physical Education

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **French** *or* **German** *or* **Spanish** (French preferred).
4.	200	**Elementary Mathematics.**
5.	100	Any one of the following:—**Botany; Chemistry; Physics; Zoology.**
Total	800	

Faculty of Music

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	400	Two of the following:—**French; German; Spanish; Italian; Latin.**
4.	100	**Algebra** *or* **Geometry.**
5.	100	**Rudiments of Music:** musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh.
Total	900	

For admission requirements in the Schools for Social Workers and Graduate Nurses, see pages 554 and 572, and for information touching admission to the Faculties of Medicine, Dentistry and Applied Science, see under Senior Matriculation, page 95.

III. PRESCRIPTION OF WORK IN EACH SUBJECT

For 1931

English.

A. *Composition.* As in the Ontario High School Composition, page 198 to the end (Copp, Clark Co.), with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows:—Shakespeare, As You Like It (Copp, Clarke Co.*); Thackeray, Henry Esmond (Macmillan*); Macdonald's English Prose Selections (Macmillan), Part II.

These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Shakespeare, Julius Cæsar (Copp, Clark Co.*); Poems of the Romantic Revival, pages 29-56 and 107-162 (Copp, Clark Co., Ltd., Toronto).

Passages for memorization:—

The Prelude, lines 40-56; The Rainbow, the whole; Ode on Intimations of Immortality, lines 58-66; She Dwelt Among the Untrodden Ways, the whole; The World is too Much with us, the whole; Ode to a Nightingale, lines 61-70; Songs from Pippa Passes, lines 1-8; The Italian in England, lines 145-160; Andrea del Sarto, lines 69-98; Asolando, lines 11-20; As You Like It, Act II, Scene VII, lines 139-166; Julius Cæsar, Act II, Scene I, lines 10-35; Act III, Scene I, lines 148-163; Act III, Scene II, lines 217-231; Act V, Scene V, lines 68-75.

Candidates will also be expected to commit to memory other passages of a striking nature, but not exceeding 25 per cent of the amount prescribed.

Two examination papers; one on Composition and the other on Literature (for critical study).

Spelling will be tested by the candidates' papers in English. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

History and Historical Geography.

General History from 1300 A.D. to the present time. Any standard General History, such as Myers, may be used as a text book.

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* These editions are recommended, not prescribed.

Or

British History from 1714 to the present time. *Text-Book:*—The Groundwork of British History, by Warner and Marten (Blackie & Sons, Edinburgh), Part III, with appendices.

The geography required will be that relating to the history prescribed.

One examination paper.

Greek.

Texts:—Easy Selections from Xenophon, Philpotts and Jerram, chaps. 3, 4, 5; Homer, Iliad I, lines 1 to 350.

Grammar.—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two examination papers; one on Xenophon and Composition, the other on Homer and Translation at Sight.

Latin.

Texts (Translation and Grammatical study).

Selections from Cicero, ed. Charles (Bell's Illustrated Classics); Virgil, Aeneid, Book II.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative.

Two examination papers; one on Cicero and Composition, and the other on Virgil and Translation at Sight.

Note.—The "Roman" method of pronouncing Latin is recommended.

French.

Prescribed texts:—Daudet, Trois contes choisis (Heath); Jules Girardin, Les braves gens (Oxford University Press, Toronto).

Grammar.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation into English from prescribed texts and at sight of a French passage of moderate difficulty.

Translation at Sight into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French grammar.

Books recommended:—Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

Two examination papers; one on prescribed texts and grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

Optional papers will also be provided on the lines of the direct method, including: grammar, syntax, composition and reproduction of a story; the whole to be written in the French language.

German.

Texts.—(Translation and grammatical study) :—

Guerber, Märchen und Erzählungen (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Baumbach, Der Schwiergershon (Copp, Clark Co.).

Grammar.—A thorough knowledge of German accidence and syntax, as in Van der Smissen, or any other German grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

Spanish.

Two papers will be set, containing (1) questions on grammar and snytax, (2) passages for translation from prescribed text books, (3) unseen translation from Spanish into English, and (4) translation from English into Spanish.

Texts prescribed:—Juan Valera's "El pajaro verde" (Ginn & Co.); Hills & Cano, "Cuentos y Leyendas" (Heath & Co.).

Books recommended:—Elementary Spanish grammar, Sanin Cano (Oxford Press); Spanish Composition, Loiseaux (Silver, Burdett & Company).

Italian.

Prescribed texts:—Bowen's Italian Reader (Heath); Manzoni, I promessi sposi.

Grammar.—A thorough knowledge of Italian accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of an Italian passage of moderate difficulty.

Translation into Italian of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of Italian grammar.

Books recommended:—Grandgent's Italian Grammar (Heath); Grandgent's Italian Composition (Heath).

Two papers will be set; one on grammar, including translation of short English sentences into Italian, and one on translation of continuous passages from Italian into English (from prescribed texts) and from English into Italian.

Elementary Mathematics.

Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in Hall and Knight's Elementary Algebra, Chapters I to XXXII (omitting portions marked with an asterisk and Arts. 303-311), or as in similar text-books.

One examination paper.

Geometry.—The paper shall contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and millimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry shall consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Hall and Stevens' School Geometry, pp. 1-203, 219-265, 267-276 and Theorems 69, 70, 71, 72.

One examination paper.

Intermediate Mathematics.

Algebra.—The three progressions, variations, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

Geometry.—As in Hall and Stevens' School Geometry, pp. 202-212, 266-269, 280-310, 319-322, and also Godfrey and Siddons Elementary Geometry (Pitt Press, Cambridge), pp. 143-153 and 288-294, or as in similar text-books. Candidates are expected to know how to use squared paper, to locate points, to find areas of rectilinear and curvilinear figures, to plot loci (in particular the ellipse, hyperbola and parabola) and to plot loci as envelopes.

Trigonometry.—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Trigonometry, Chaps. I to XII, inclusive; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.

Chemistry.

An elementary treatment of the fundamental principles of chemistry, with the preparation and properties of the commoner elements and their most important compounds, the application of these in the home and in the industries, the laws of chemical action, the essential hypotheses, etc.

Text-book:—"Elementary Chemistry for High Schools" (Revised Edition) by Nevil Norton Evans (W. J. Gage & Co. Ltd., Toronto), Chaps. I-XXV inclusive.

One examination paper.

Physics.

Properties of matter; elemetary mechanics of solids and fluids, including the laws of motion, simple machines, work energy; fluid

pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-book recommended:—High School Physics, by Merchant and Chant (revised edition), Parts I, II, III, IV and VI, or the equivalent in other text-books.

One examination paper.

Botany.

Candidates will be examined on the following schedule:—

1. The form, structure and work of plants, especially higher plants, and of their various organs.

Bergen and Caldwell, Chapters I to IX and XXI, with some amplification as to microscopic structure and physiology. The practical work in Eikenberry provides a basis for this amplification. The teacher is referred to Gager, Parts I and II.

2. Broad classifications and comparative study of the main groups of plants; familiarity with standard types.

Bergen and Caldwell, Chapters X to XIX.

3. Distinguishing characters of the commoner families of flowering plants. (Bergen and Caldwell, Chapter XX.) Field study; an elementary acquaintance with the flora and ecology of the district in which the candidate lives. (The remaining chapters of Bergen and Caldwell may serve as a guide, but first hand acquaintance with local plants is mainly desired.)

Text-books:—Bergen and Caldwell's "Practical Botany," to be used with Eikenberry's "Problems in Botany," a laboratory manual for the guidance of teachers. Gager's "General Botany," or Macgregor Skene's "Biology of Flowering Plants" are also recommended for teachers.

Physical Geography.

(For candidates entering the Faculty of Agriculture.)

Tarr's new Physical Geography, Chapters I to XIV and appendices A to H inclusive, or the Ontario High School Physical Geography (Ryerson Press).

Music.

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

Drawing.

Candidates may take either Parts I and II or Parts III and IV.

PART I

Elementary problems in Geometrical Drawing, with applications, as in Part I of Armstrong's Geometrical Drawing (Renouf and Co.).

PART II

(a) Reproduce freehand ornament designs from flat copies.
(b) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.
(c) Make outline drawings of objects placed at a short distance.

PART III

Draw in light and shade, with charcoal or pencil, from a plaster cast or ornament in high relief.

PART IV

Make water colour drawings of still life groups.

SENIOR MATRICULATION

(For admission to Second Year Arts or Commerce, or First Year Applied Science)

I. B.A. Course

English.

Latin *or* **Greek.**

Mathematics *or* **a third foreign language.**

Any two of the following:—

1. **History.**
2. **Latin** *or* **Greek** (the one not already taken).
3. **French.**
4. **German.**
5. **Science (Physics** *or* **Chemistry** *or* **Biology).**

Candidates cannot substitute a third foreign language for Mathematics unless they have passed in the Mathematics prescribed for Junior Matriculation.

II. B.Sc. Course

Chemistry.
English.
French *or* German.
Mathematics.
Physics.

III. B.Com. Course

English.
Mathematics.
French *or* German *or* Spanish.
Accountancy.

Any two of the following:—

1. Latin *or* Greek.
2. French *or* German *or* Spanish (the one not already taken).
3. Physics *or* Biology *or* Chemistry.
4. History.

This examination may be taken in two parts, but a candidate must complete the requirements within thirteen months from the date of the first attempt. The pass mark is 50 per cent in each subject.

REQUIREMENTS IN EACH SUBJECT

(For the Years 1931 and 1932)

Accountancy.

Double-entry bookkeeping, control accounts, trading and profit and loss statements, balance sheets, various forms of Cash Books, imprest system petty cash, Columnar Journals, Bills Registers, reserves for discounts, bad debts and depreciation, single-entry, consignments, working sheets, inward and outward freight, capital and revenue expenditure, bills of exchange, bills of lading, etc.

Text-books:—"Accounting Principles and Practice," by Smails and Walker (Ryerson Press, Toronto), Chapters 1-7 inclusive, and "One Hundred and Twenty Graduated Exercises in Bookkeeping," by Thompson (Pitmans, Toronto). Exercises A to Q, inclusive.

One examination paper.

Further details will be given on application to the Registrar.

Biology.

Text-books:—Biology, by H. W. Coun (Silver, Burdett & Co.), Chapters 1 to 10 inclusive; Animal Biology, by J. B. S. Haldane and Julian Huxley (Clarendon Press), and the life history of Spirogyra, Mucor, and a fern, as in any good elementary text-book of Botany.

In addition, a certificate will be required, signed by the Headmaster of the school attended, to the effect that the candidate had regularly carried out the necessary laboratory work on the course indicated.

One examination paper.

Chemistry.

Text-book:—Newell, College Chemistry (1925), omitting Chapters 21, 22, 24 (sections 485-487 inclusive), 28 (sections 571-574 inclusive, and 589), 30 and 40.

One examination paper.

English.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) is recommended as a suitable text-book.

Literature.—The examination will be based on the following texts:—Chaucer's Prologue to the Canterbury Tales; Spenser's Faerie Queene, Book 1, Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, Il Penseroso, Lycidas and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chapters 1-VII, inclusive, with special emphasis on the portions most closely connected with the foregoing list of books.

Two examination papers.

French.

Bouvet, French Syntax and Composition (Heath); Lavisse, Histoire de France, Cours Moyen; Maupassant, Huit Contes Choisis; Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

Translation at Sight from English into French and from French into English.

Two examination papers.

German.

Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Hauff, Die Karawane (Macmillan or Holt); Diamond and Reinsch, Nachlese (Holt).

Translation at Sight from German into English and from English into German.

Two examination papers.

Greek.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

One of the following books is recommended for grammar:—First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

Two examination papers.

History.

General History of Europe from the break-up of the Roman Empire to the present day.

No text-book is prescribed. Such a book as J. H. Robinson's Introduction to the History of Western Europe (new brief edition in one vol., Ginn & Co.) would furnish the candidate with an adequate basis of knowledge. G. B. Adams's European History, an Outline of its Development, would also be found useful. The student will find Robinson's Readings in European History a valuable supplement to whatever text-book he uses.

Candidates should read at least one of the works in each of the following groups:—

(1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).

(2) Machiavelli's Prince (Everyman's Series); Macaulay's Essays on Machiavelli and Ranke's History of the Popes; Motley's Rise of the Dutch Republic, Part III (Everyman's edition, vol. II).

(3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.

(4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

Latin.

Virgil, Aeneid I (Sidgwick, Camb. Univ. Press, edition with vocabulary); and Cicero, In Catilinam, I, III, IV.

The examination will include a paper on grammar, composition and sight translation.

The grammar recommended is New Latin Grammar by Sonnenschein (Oxford Clarendon Press).

Two examination papers.

Mathematics.

Algebra.—Hall and Knight's Elementary Algebra (omitting chapters 40-32, inclusive), or the same subject matter in similar text-books.

Plain and Solid Geometry.—Hall and Stevens' School Geometry to Theorem 98, inclusive.

Trigonometry.—Hall and Knight's Elementary Trigonometry, Chapters I to XIX, inclusive, omitting pages 212 to 230.

Two examination papers, one on Algebra and one on Geometry and Trigonometry.

Physics.

A general knowledge of the more important principles of elementary physics will be required.

Text-book:—Kimball, College Physics (Henry Holt & Co., New York, 1912).

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Headmaster of the School, must be forwarded to the Registrar for the examiners' valuation. Unless this is done, an examination on practical physics will have to be taken.

One examination paper.

Spanish.

Two papers will be set as in the Junior Matriculation, but the examination will be of a more advanced character.

Text-books prescribed:—Baroja's "Zalacain el aventurero" (Heath & Co.); Azorin's "Les Confesiones" (Heath & Co.).

CERTIFICATES RECOGNIZED

The following certificates will be accepted for the subjects covered by them towards meeting the foregoing requirements:—

Province of Ontario.

Upper School Certificates.

Province of Nova Scotia.

Grade XII Certificate.

Province of Prince Edward Island.

Third Year Certificate of the Prince of Wales College.

Province of Manitoba.

Grade XII Certificate.

Provinces of Alberta and Saskatchewan.

Grade XII Certificate.

Province of British Columbia.

Senior Matriculation Certificate.

Newfoundland.

Senior Associate Grade Certificate.

Great Britain.

The Higher Certificates (with four or five credits) of:—

The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
Durham University.
Bristol University.
London University.

ADMISSION TO LAW, MEDICINE, DENTISTRY AND APPLIED SCIENCE

FACULTY OF LAW.—Two years in Arts (B.A. Course).

FACULTY OF MEDICINE.—At least two years, taken in the Faculty of Arts.

The two years of college work must include:—

Physics—One year of general college Physics with laboratory work.

Biology—One year of general Biology or Zoology with laboratory work. One half-year of Botany and one-half year of Zoology will be accepted, but not Botany alone.

Chemistry—Two years:—

(a) One full year of General Chemistry with laboratory work.

(b) One full course in Organic Chemistry with laboratory work.

(The course in Organic Chemistry may be covered in one half-year if desired.)

It is to be understood that the course outlined above is the *minimum* requirement for admission to the First Year of the Faculty of Medicine. Since, however, the primary purpose of the pre-professional training is a sound general education, preference will be given to applicants who have had a full academic course in which the humanistic studies have not been sacrificed to a narrow scientific specialization.

Those who intend to practise medicine in any of the provinces of Canada must register with the licensing body of their home province before beginning their medical studies. Students from the Province of Ontario must pass the Middle School Examination of that province in order to qualify for registration there. Further information on this point, as well as the names of the Medical Board Registrars of the different provinces, will be found in the Announcement of the Faculty of Medicine, which will be sent on request.

FACULTY OF DENTISTRY.—Two years in Arts in a recognized university, including two years of lectures and laboratory work in Chemistry (inorganic and organic), Physics (one year) and Biology (one year). In the case of those who intend to practise in the Province of Quebec these two years must be taken in a recognized English University in that Province.

FACULTY OF APPLIED SCIENCE.—Senior Matriculation, or First Year Arts, covering English, Mathematics, Physics, and any two of the following:—History, French, German, Greek, Latin, Spanish, Chemistry.

(In 1932 Chemistry will be compulsory.)

APPLICATION FOR ADMISSION TO ARTS

All students who wish to attend the First Year, or any subsequent Year, for the first time in the Faculty of Arts during the session 1930-31 must apply in writing to the Registrar before September 9th, 1930. Blank forms may be obtained from the Registrar. The College is not bound to accept all students who may have succeeded in passing the required examinations. Not more than 375 will be admitted into the First Year for the session 1930-31.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he has previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year courses in Arts, or under the age of seventeen to the Second Year.

PHYSICAL EXAMINATION, VACCINATION AND HEALTH

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students, and all students in other years coming to the University for the first time, are required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education. Students of all Years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination will be announced at registration.

Students who do not present themselves for this examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

All students entering the University are required to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner.

For fuller information, see page 633.

CLASSES OF STUDENTS

There are four classes of students in the University:—

(1) Graduates—students who have previously obtained a Bachelor's degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree, or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of Second, Third and Fourth Year students, all the examinations of their courses in the Years below that in which they are registered.

(3) Limited undergraduates—students in the Faculty of Arts who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years. Such students may, if the reasons advanced appear satisfactory to the Dean, be given the status of Limited Undergraduates and may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.
Limited Undergraduates will not be eligible for Honour courses, scholarships, exhibitions, bursaries or prizes of any description.

(4) Partial students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. In order to obtain admission, such students must pass the matriculation examination in the subject, or subjects, which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the courses.

REGISTRATION AND ATTENDANCE

1. REGISTRATION

The dates for the registration of students in the different Faculties for the session 1930-31 will be found on page 59.

Women students of the Faculty of Arts, after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the College not residing with their parents or guardians in Montreal, and who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

Students of all Years above the First will be allowed to register after the official registration days only on payment of a fee of $5.00 during the first week of the session, and of $10.00 during the second.

This fee will not be refunded, except for satisfactory reasons and by authorization of the Faculty concerned.

After the fifteenth day of the session no student will be admitted, except by special permission of the Faculty concerned.

Students desiring to make changes in their choice of studies must make application to the Registrar to do so. If this is in accordance with the regulations, the change, or changes, will be made at once, otherwise the applicant must receive the approval of the Registration Committee or of the Dean, as the case may be. No change can be made in courses after the twentieth day of the session, except under special circumstances.

2. ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.* In Applied Science this regulation is not strictly enforced, except as regards lectures in the First Year. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory shall not be permitted to come up for the regular examination in that course, and those whose unexcused absences in such courses have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or inevitable accident, shall be dealt with only by the Deans of the respective Faculties.

* Physical education is included under this regulation.

Excuses for absences in excess of one-eighth will be entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates will be filed, and, if acceptable, the Dean will give the student a statement certifying the absences covered, which must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases will be dealt with by the Dean of the Faculty.

3. Lectures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lectures will be marked absent.

SCHOLARSHIPS, MEDALS AND PRIZES

GENERAL REGULATIONS IN ARTS

1. No student can be awarded more than one scholarship in Group C or D; in Groups A and B, however, a student may hold several but only up to a total value of $500.

2. Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any College Year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another Year.

4. A successful candidate must, in order to retain his scholarship, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in four instalments, viz.:—In October, December, February and April, about the 20th of each month.

GROUP A.—ENTRANCE SCHOLARSHIPS IN ALL FACULTIES

The P. S. Ross Exhibition

This exhibition, of the value of $100, was founded by Mr. P. D. Ross, B.A.Sc., in memory of his father, the late Mr. P. S. Ross, and is given through the Ottawa Valley Graduates' Society. It is awarded annually to the candidate from the Ottawa Valley who obtains the highest percentage at the June matriculation examination and attends the University during the ensuing session. Candidates must apply before August 1st.

The Ottawa Valley Graduates' Society Exhibition

This exhibition, of the value of $75, will be awarded annually to the candidate from the Ottawa Valley who obtains the second highest percentage at the June matriculation examination and attends the University during the ensuing session. Applications must be made before August 1st.

The Dr. H. Ami Exhibition

This exhibition, of the value of $50, will be awarded annually to the candidate from the Ottawa Valley who obtains the third highest percentage at the June matriculation examination and attends the University during the ensuing session. Applications must be made before August 1st. This exhibition is given through the Ottawa Valley Graduates' Society.

The Sidney J. Hodgson Exhibition

These exhibitions were founded by Arthur J. Hodgson, Esq., in memory of his son, Sydney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. One of these exhibitions is of the value of $250 and the other of $175. They are open to pupils of the Westmount High School who have been in attendance for at least one year, and will be awarded on the result of the June matriculation examination to the two pupils who obtain the highest and the second highest percentage, respectively, on the subjects required for entrance to the Faculty of Arts, and who attend the University during the ensuing session.

Bursaries Granted by the Imperial Order of the Daughters of the Empire

These bursaries are of the annual value of $300, are tenable for four years at any university and are open to the sons and daughters of deceased or totally disabled soldiers and sailors. One is available for each Province each year.

Full information can be obtained by writing to the Head Office of the Order for Canada, 238 Bloor Street East, Toronto, 5, Ont.

Scholarship Granted by the Graduates' Society of the District of Bedford

This scholarship, of the value of $120, will be awarded annually to a "matriculated student in Arts whose parents reside in the District of Bedford, and whose candidature has been approved by a committee of the Society."

Narcissa Farrand (Mrs. N. Pettes) Scholarship

This scholarship, of the value of $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, will be awarded annually to the candidate from the Eastern

Townships who obtains the highest marks at the Arts matriculation examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination. Intending competitors must apply to the Registrar before August 1st each year.

The Trafalgar Scholarship

Founded in 1913 by certain friends and former pupils of Miss Grace Fairley, to signalize her long and faithful service to education in Montreal, and particularly as head of the Trafalgar Institute. It is of the value of $135, is tenable for one year only, and will be awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June matriculation examination and matriculates as an undergraduate in the Faculty of Arts.

Scholarship for Holders of Intermediate Diplomas

A scholarship of $150 is offered annually in the Faculty of Arts to holders of Intermediate diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Dean of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and declare their intention to proceed to a First Class High School diploma following the course prescribed by the University.

The scholarship will be awarded on the academic subjects of the examination for the Intermediate diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course will be considered. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be considered on their merits.

Holders of this scholarship will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

The Sir William Macdonald Entrance Scholarships in Arts

The following scholarships, endowed by the late Sir William Macdonald, tenable in the Faculty of Arts, and open to men only, will be offered for competition in June each year:—

Five scholarships, of the value of $150 each (three open to candidates not residing on the Island of Montreal), will be awarded on the result of the matriculation examination in June.

Application must be made between August 1st and 10th.

University Entrance Scholarships in Arts

Three scholarships of the value of $100 each and two of the value of $75.00 each (one of each value open to candidate not residing on Montreal Island) are offered for entrance to the Faculty of Arts, and will be awarded on the result of the matriculation examination in June.

Application must be made between August 1st and 10th.

Royal Victoria College Entrance Scholarships

Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These will be awarded on the result of the matriculation examination. Application must be made to the Registrar between August 1st and 10th.

The Hon. Robert Jones Scholarship

THE HON. ROBERT JONES SCHOLARSHIP, having a value of One Hundred and Twenty-five Dollars ($125) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts or of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Arts or Applied Science, as the case may be. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

The Robert Bruce Bursaries and Scholarships

Under the will of the late Robert Bruce, of the City of Quebec, provision is made for the establishment of bursaries and scholarships.

One bursary, of the value of $100, will be open each year to "young men and women of promising abilities but of straitened circumstances who have qualified for entrance and are taking a course of study in Arts or Science."

Two scholarships have also been established; one open to candidates for entrance to the University, of the value of $100, tenable for one year, awarded for high standing at the Matriculation Examination. For the other which is awarded on the result of the First Year Examinations in Arts, see page 107.

For the first twenty-five years students of Scottish extraction will be given the preference.

The Lord Atholstan Scholarship

1. This scholarship, of the value of $1,000, has been donated by Right Honourable Lord Atholstan for competition among the pupils of Huntingdon Academy who have taken their full high school course of study in that institution. It will be awarded to the pupil in this category who obtains the highest standing at the June Matriculation Examination for entrance to any Faculty and who attends McGill University during the subsequent session.

2. The holder of the scholarship shall receive $250 per year for four years, but the scholarship shall be forfeited at any stage through failure to satisfy the regulations of the University regarding advancement from year to year. The amount of the annual scholarship shall be paid to the scholar in four equal instalments.

The Edith Silver Memorial Scholarship

1. This scholarship, founded by a group of Jewish women students and of the value of $100.00, will be awarded on the result of the June University Matriculation examination or the High School Leaving Examination of the Province of Quebec covering the subjects required for admission to the Faculty of Arts.

2. It is open to women students who obtain over 70% of the total marks possible and will be awarded to the applicant who stands highest in this division and who at the same time needs assistance to undertake the course. Applications must be received between August 1st and 10th.

The Isabella C. MacRae Scholarship

By the bequest of $3,021.17 from the late Isabella C. MacRae, a scholarship has been founded, open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no applicants from this locality for six years, the scholarship will be open to any resident in Ontario.

The Christie, Storer Chapter Scholarship

A scholarship of the value of $150.00 is given by the above-named Chapter of the I.O.D.E. to the pupil of St. Lambert High School who stands highest in the June Matriculation Examination each year.

Canadian Pacific Railway Scholarships

Scholarships covering one year's tuition in the Faculty of Arts and four in the Faculty of Applied Science are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons of employees, and the award is made on the result of the Junior Matriculation Examination in June. For full particulars as to number of scholarships available, etc., application should be made to C. H. Buell, Esq., Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal.

The Beatty Scholarships

Two scholarships, of the value of $500 each, have been founded by Dr. E. W. Beatty, Chancellor of the University, tenable in the Faculty of Arts, one for Classics (Latin and Greek) and the other for Mathematics. The award will be made on the standing of the candidates in the Matriculation Examination, and the result of a special examination in connection with the Matriculation Examination in June. This special examination will, in the case of Classics, be in the form of two papers on prose and sight work and, in the case of Mathematics, of a special three-hour paper on topics of Algebra, Geometry and Trigonometry of the standard of Intermediate Mathematics. (See page 87.)

Applications must be received before May 15th.

These scholarships are open only to male students, educated in Canadian schools, whose parents are British or Canadian born.

Affiliated Theological College Scholarships

The United Theological College Scholarships.—The Board of Management of the United Theological College offers scholarships for the payment of fees of undergraduates in Arts who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3506 University Street, Montreal.

Presbyterian College Scholarships.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Principal, the Presbyterian College, Montreal.

GROUP B.—SCHOLARSHIPS IN ARTS AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATION

THE JANE REDPATH SCHOLARSHIP.—Founded by the late Mrs. Redpath, of Terrace Bank, Montreal, for the maintenance of a scholarship in Arts. It will be awarded on the result of the sessional examination of the First Year to the student who makes the highest average on the year's work. Value of scholarship, $115.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value, $115.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the close of the war, in which he had served with distinction. This scholarship will be awarded each year to a male student of the Third Year Arts who has "given proof of scholarship and ability as an honour student in the subject of English and Philosophy." It is of the value of $275.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship has been founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of the First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916. It is of the value of $250 and will be awarded annually on the result of the examination in English and Economics of the Second Year, and is subject to the condition that the holder take an Honour Course in English, with Economics as a minor subject in his Third Year, or the Honour Course in English and Economics, should such be established. It is open to male students in the Faculty of Arts professing the Christian religion.

MACKENZIE SCHOLARSHIPS.—Four scholarships, known as the Mackenzie Scholarships, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded, on the results of the Second Year examination in Economics 1 and 3, to students whose courses have been approved by the Department, but no student is eligible who has not completed the work of this Year. The tenure of the scholarships is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Third Year. The other two scholarships, of the value respectively of $100 and $50, are awarded on the result of the honour examination of the Third Year in Economics and Political Science. The scholarships will not be awarded except on satisfactory evidence

of merit; their tenure is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Fourth Year.

A Fourth Year Mackenzie scholarship may be held by a student who holds another; a Third Year scholarship cannot.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value, $60.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department; value, $50.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of $100 annual value and tenable for three years will be awarded for high standing in the examinations at the end of the First Year.

THE REFORD SCHOLARSHIP.—The interest on this fund, amounting to about $275 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

THE HOUSTON SCHOLARSHIP.—Founded by the will of the late Thomas Houston, for the purpose of establishing a scholarship for French students studying for the Presbyterian Ministry. It is open only to undergraduates in the Faculty of Arts under the above restriction and will be awarded on the result of the sessional examination without regard to Year. The value of the scholarship is about $60.

THE HOWARD MURRAY SCHOLARSHIPS.—Two scholarships of the value of $100.00 each will be awarded annually for the next four years through the kindness of Howard Murray, Esq., to the two students who obtain the highest marks in French in the Third Year Commerce, and who continue their studies in this subject in the Fourth Year.

THE NATHAN FISH MEMORIAL SCHOLARSHIP.—This scholarship, of the value of $50.00, has been founded by the Chi Chapter of the Sigma Alpha Mu Fraternity in memory of Nathan Fish, a student in Pharmacy who died in 1925. It is awarded annually to the student obtaining the highest distinction in the Second Year honour subjects of the Department of English, or in any other course or courses at McGill University, which the authorities may select.

THE MARGARET JANE ALLAN SCHOLARSHIP.—This scholarship, of the value of $300, was established in 1929 by a bequest to the Royal Victoria College from the late Mrs. Agnes W. Allan, wife of the late Dr. J. H. B. Allan, a resident of Montreal. It will be awarded each year to the woman student in either the B.A. or the B.Sc. course in Arts who obtains the highest standing in the sessional examinations of the First Year.

GROUP C.—SECOND YEAR SCHOLARSHIPS IN ARTS AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER

Six scholarships, ranging in value from $100 to $150 each, will be offered for competition to students entering the Second Year in September, 1930.

The subjects of examination are divided into two groups, as follows:—

Group I.—Greek, Latin, French, German, English, History.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two scholarships of $150 each and two of $100 each are offered to candidates taking their major subjects from Group I, and one of $150 and one of $100 to candidates taking their major subjects from Group II.

One of these scholarships is "The Charles Alexander Scholarship," for men only, and is awarded for "classics and other subjects."

The above scholarships are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT

Greek.

(As a Major Subject)

I. (a) Homer, Odyssey VI.
(b) Colson, Greek Reader, pages 88-116.
II. Translation at sight.
III. History:—Edmonds, Greek History for Schools (Camb. Univ. Press), to the end of the war with Persia.

(As a Minor Subject)

The same as above, omitting 1 (b) and III.

Latin.

(As a Major Subject)

I. (a) Cicero, De Amicitia.
(b) Horace, Odes II.
II. Composition and translation at sight.
III. Roman History:—How and Leigh, from the foundation of Rome to the end of the Second Punic War.

(As a Minor Subject)

The same as above, omitting I (b) and III.

French. (*As a Major Subject*)

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) translation of passages taken from the prescribed texts; (e) a critical story of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cima (Holt); Molière, La Malade Imaginaire (Macmillan); Thiers, Expédition de Bonaparte en Egypte (Holt); Loti, Pêcheurs d'Islande (Rivington).

(*As a Minor Subject*)

The same as above, omitting Molière and Thiers.

German. (*As a Major Subject*)

(a) Grammar; (b) translation at sight from German into English and from English into German; (c) critical study and translation of the following texts:—

Schiller, Maria Stuart (Heath & Co.); Fulda, Talisman (Heath); Hauff, Lichenstein (Heath).

(*As a Minor Subject*)

The same as above, omitting Schiller.

English. (*As a Major Subject*)

Shakspere, Twelfth Night (ed. Macmillan); Macaulay, History of England, Vol. I, Chap. 3 (England in 1685); Scott, Marmion; Thackeray, Pendennis; George Eliot, The Mill on the Floss; Tennyson, The Coming of Arthur, The Last Tournament.

(*As a Minor Subject*)

The Scott and Tennyson prescribed above.

History. (*As a Major Subject*)

J. A. Symonds: Short History of the Renaissance in Italy (one volume); M. Creighton: A History of the Papacy from the Great Schism to the Sack of Rome, Book VI; More's Utopia.

(*As a Minor Subject*)

J. A. Symonds: Short History of the Renaissance in Italy (one volume).

Mathematics.

(*As a Major Subject*)

Plane Geometry.—Godfrey and Siddon's Modern Geometry, omitting appendices.

Algebra.—Hall and Knight's Higher Algebra; also Fine's College Algebra (Ginn & Co.), pages 424 to 511.

Plane Trigonometry.—Carslaw's Plane Trigonometry (Macmillan & Co.), except Chap. 13.

(*As a Minor Subject*)

The mathematics of the First Year general course.

Physics.

(*As a Major Subject*)

Duncan and Starling's "Heat, Light and Sound" (Macmillan); and Bragg's "Concerning the Nature of Things."

(*As a Minor Subject*)

Kimball's "College Physics" (Henry Holt & Co.).

GROUP D.—THIRD YEAR SCHOLARSHIPS IN ARTS, AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER

The following five scholarships, of the value of $300 ($150 per year for two years), will be open for competition to students entering the Third Year in September, 1930:—

One for English and History and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

Of the above five scholarships two are known as "Sir William Macdonald Scholarships" and are open to men only.

The four following scholarships, of the value of $150 each, are also offered for competition to students entering the Third Year:—

One for Philosophy.

One for Psychology.

One for Chemistry.

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† The language not chosen in the first instance may be taken as the second language.

(Of the above three scholarships, one is called a "Sir William Macdonald Scholarship" and is open to men only.)

One for Biology.

(This scholarship is called "The Major Hiram Mills Scholarship." It is open to both men and women.)

A Bursary of $25 will be awarded to the holder of one of these four scholarships who is considered most deserving on entering the Fourth Year.

An exhibition of $80, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year scholarship in biology or chemistry or philosophy. Should there be no sufficiently deserving candidate, this exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular scholarships offered to Third Year students.

In the award of Third Year scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of students may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT

Greek.

Translation at sight.

Study of the following texts:—Euripides, Medea; Plato, Crito.

History:—Edmonds' Greek History for Schools (Camb. Univ. Press), from the end of the war with Persia to the death of Alexander.

Latin.

Prose composition; translation at sight.

Study of the following texts:—Cicero, De Amicitia; Virgil, Aeneid VI; Cicero, Pro Archia.

Roman History:—How and Leigh, from the end of the Second Punic War to the death of Cæsar.

English and History.

Literature.—Shakespeare, Hamlet (ed. Deighton, Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan); Ruskin, Sesame and Lilies, Crown of Wild Olive; Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library).

Composition.—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject.

History.—W. H. Prescott: The Conquest of Mexico, Francis Parkman: Pioneers of France in the New World, Montcalm and Wolfe.

French.

(a) Translation at sight from French into English, and from English into French; (b) translation of passages from the prescribed texts; (c) questions on the subject matter of the following texts, and the lives of their authors:—Molière: Le médecin malgré lui (Heath); Racine: Andromaque (Heath); Rostand: Cyrano de Bergerac (Holt); Hugo: Ruy Blas (Holt): Rudmore Brown: French short stories (Oxford); Taine: L'Ancien Régime (Heath).

The entire examination will be held in the French language.

German.

(a) Translation at sight from German into English, and from English into German; (b) critical study and translation of the following texts:—Goethe, Dichtung und Wahrheit, Books I, II, III (Heath); Schiller, Das Lied von der Glocke (Holt), and Wallenstein's Lager (Holt); Eichendorff, Aus dem Leben eimes Taugenichts (Holt); Heine, Prose Selections, Faust's edition (Macmillan).

Mathematics and Physics.

CALCULUS:—Fundamental principles relating to functions, limits and continuity; differentiation and integration of ordinary functions; geometrical applications; maxima and minima; curvature; areas; volumes; length of curves; mean values; approximate integration; Taylor's and MacLaurin's Series.

Books for reference:—Murray's Differential and Integral Calculus (or similar text books) and, most especially, Lamb's Infinitesimal Calculus, Chaps. I-VIII inclusive, and Arts. 133-135, 183, 184.

ANALYTIC GEOMETRY:—Plotting of curves and finding their slopes, and the analytical treatment of the conic sections.

Books of reference:—Tanner and Allen's Analytic Geometry (or similar text books) and, most especially, C. Smith's Conic Sections, Chaps. I-IX inclusive (omitting Articles 52, 54–64), and Arts. 187, 188, 222-229 inclusive.

HIGHER TRIGONOMETRY:—Carslaw's Plane Trigonometry.

PHYSICS:—Maxwell's "Matter and Motion," excluding appendix (S.P.C.K.) and Maxwell's Theory of Heat (Longmans). An essay or article prepared during the summer must be submitted. It may be on any one of the following topics:—(1) Calorimetry; (2) Recent Advances in Radio; (3) an account of an investigation performed during the summer.

Philosophy.

Locke's Essay Concerning Human Understanding, Book I, and Book II chaps. 1-23; Berkeley's Principles of Human Knowledge, paragraphs 1-33 inclusive, and the Three Dialogues Between Hylas and Philonous; Jevon's Lessons on Logic or Mellone's Text Book of Logic, complete. The selections from Locke and Berkeley in Rand's Modern Classical Philosophers (Houghton Mifflin & Co.) are sufficient to cover the work required in Locke and Berkeley, except the Three Dialogues named.

Psychology.

Woodworth, Psychology.

Chemistry.

Smith's College Chemistry, by James Kendall.

Subject of Essay.—"Aqueous Solution."

Biology.

Animal Biology.—J. B. S. Haldane and Julian Huxley, Animal Biology (Oxford, Clarendon Press, Toronto).

Plant Biology.—The Biology of Flowering Plants by Macgregor Skene (London, Sidgwick and Jackson, Ltd., 1924).

For scholarships open to graduates, see pages 125 to 132.

MEDALS IN ARTS

Medals will be available in the final Honours examination for the students who take the highest honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examination for the degree of B.A. or B.Sc., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakespere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, to be awarded to the student standing highest in the Final Year Honours in the Department of History.

The Lieutenant-Governor's Bronze Medal, to be awarded to the student standing highest in the Second Year in Latin and Mathematics.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there be no candidate for any medal, or if none of the candidates fulfill the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS

1. The Neil Stewart Hebrew Prize.—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university who are students of theology in some college affiliated to this University. It will be awarded on the result of the sessional examination in Hebrew of the Second Year.

2. Early English Text Society's Prize.—This prize will be awarded for proficiency in the subjects of the language group in the English honour curriculum of the Third and Fourth Years.

3. New Shakespere Society's Prize.—This prize, open to graduates and undergraduates, will be awarded for a critical knowledge of the following plays of Shakespere:—Hamlet, Macbeth, Othello, King Lear.

4. Annie Macintosh Prize.—The income of the sum of $1,130 ($425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and $618.97 bequeathed by the late Miss I. G. Macintosh) is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

5. Penhallow Prize.—The income of the sum of $1,100, collected by the Arts Undergraduates' Society in 1911, will be awarded annually as a prize in the Department of Botany.

6. Henry Chapman Prize.—This prize, of the value of $15, is given in such modern languages as may be taught in the Faculty of Arts, other than English, and Hebrew shall also be included.

7. The Chester Macnaghten Prize, of the value of $25 in books, established by the late Russell E. Macnaghten, Esq., M.A., in memory of his late uncle, will be awarded annually, through the University Literary and Debating Society, for reading in English.

8. Prizes in Hebrew.—(a) The O. and S. Fitch prize, value $50.00; (b) the A. J. Freiman prize, value $100.00; (c) the A. Pierce prize, value $100.00.

9. The Cherry Prize.—This prize, of the value of $50.00 in books, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who at the end of his Second Year is, in the opinion of the Department, deserving of such recognition, it being understood, however, that the prize shall not be awarded to any student who is in receipt of a scholarship in his Third Year.

10. Peterson Memorial Prize in Literature.—This prize, of the value of $50.00, founded by W. G. Peterson, Esq., B.A. (McGill and Oxon.), M.A., Lecturer in English at St. Andrew's University, Scotland, in memory of his father, the late Sir William Peterson, Principal of McGill University from 1899-1918, will be awarded to the undergraduate or graduate student who, in addition to having achieved distinction in English Literature, has given evidence of creative literary ability.

SCHOLARSHIPS AND PRIZES IN APPLIED SCIENCE

AWARDED ON THE RESULT OF SPECIAL EXAMINATIONS

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in levelling and transit work.

2. Messrs. Babcock & Wilcox, Limited, offer a scholarship of the value of $200.00. This Scholarship is open to undergraduates in the

Third and Fourth Year courses in Mechanical Engineering who intend to make a special study of steam engineering and is tenable for one year. Should it be awarded to an undergraduate in the Third Year course, it may be re-awarded for a second year at the discretion of the committee making the award. The conditions under which this scholarship is awarded may be ascertained on application to the Dean of the Faculty. The scholarship is open for competition in October, 1930.

3. The Jenkins Bros., Ltd., Scholarship, presented by Messrs. Jenkins Bros., Ltd., of Philadelphia and Montreal, and having an annual value of $200.00, is open to all engineering students entering the Fourth Year of their course. The scholarship will be awarded on the basis of academic standing and personality.

AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

1. A British Association Exhibition of $50.00 and a prize of $25.00 at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in Strength of Materials and Mechanics of the Third Year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Analytic Geometry, Calculus and Mechanics of the Second Year.

3. A Scott exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry and Physics of the First Year.

4. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in Hydraulics.

5. A prize of $25.00, presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in Architectural Drawing in the Second Year (No. 34) of the Department of Architecture.

6. A prize of $25.00, presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in Architectural Engineering in the Department of Architecture.

7. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded to the

undergraduate student who ranks highest in Design in the Final Year of the course in Architecture.

8. A prize of $25.00, presented by P. J. Turner, Esq., to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

9. Prizes amounting to $200.00, given by the Montreal Light, Heat & Power Consolidated to Fourth Year students in the Department of Electrical Engineering.

10. The following prizes are offered for the best summer essays:—

To the students of the Civil Engineering course, a prize of $25.00, from a friend.

To the students of the Metallurgical Engineering course, a prize of $25.00, presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering course, a prize of $25.00, presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering course, a prize of $25.00, presented by Dr. J. B. Porter.

11. There are offered each year by the Engineering Institute of Canada five student prizes of twenty-five dollars each, for the best paper in each of the branches of engineering—civil, mechanical, electrical, mining and chemical—received from a student member of the Institute. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars from R. J. Durley, Secretary, 2050 Mansfield Street, Montreal.

12. Three prizes, one of $25.00 and the President's gold medal, one of $15.00 and one of $10.00, are offered annually for the best papers submitted to the Canadian Institute of Mining and Metallurgy by student members of the Institute.

13. The sum of $50.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read by students before the Society during the session.

14. A Sir William Dawson Exhibition, given by the New York Graduates' Society: value, $60.00.

15. A prize of $25.00, offered by the Canadian Section of the Society of Chemical Industry, is awarded for the best essay on some important phase of chemical industry. Further particulars from the Secretary of the Society.

16. A prize of $10.00, offered by the Montreal Chapter of the American Society for Steel Treating, to the student graduating in Me-

tallurgical Engineering who obtains the highest mark in the subject of Metallography and thesis combined.

AWARDED AT THE DISCRETION OF THE FACULTY

1. The Hon. Robert Jones Scholarship, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Applied Science. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and it will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100.00, is awarded to some student who is in need of financial assistance to complete his course on entering the Second Year of the Faculty. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty of Applied Science.

3. The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries have a value of $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the Third and Fourth Years of Applied Science are eligible.

For scholarships open to graduates, see pages 125 to 132.

MEDALS AND LOAN FUNDS IN APPLIED SCIENCE

1. MEDALS

1. A British Association medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examination. The British Association medals were founded by the British Association for the Advancement of Science in commemoration of the meeting held in Montreal in the year 1884.

2. A gold medal and three prizes, offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see pages 258 and 324.

3. The Lieutenant-Governor's Silver Medal is awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

The Lieutenant-Governor's Bronze Medal is awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

2. LOAN FUNDS

1. A fund has been established by the Applied Science Class of 1899, to be known as "The Class of 1899 Fund," for the purpose of aiding, each year, one or more students who, upon the completion of their Second Year work, require assistance to enable them to finish their course of study. The loans from this fund will be repayable after graduation. Applications should be made to the Dean.

2. The George Henry Frost Fund was founded by the late G. H. Frost, B.Sc. '60, for the purpose of aiding students who, when commencing the work of the second or a subsequent year in the Faculty of Applied Science, require assistance to enable them to complete their course. Loans from this fund will bear interest at three per cent and will be repayable within three years after graduation. In making loans from this fund the academic standing of the students will be taken into account. Applications should be made to the Dean.

3. The Waddell Fund, founded by J. B. Waddell, Esq. Loans may be made from this fund under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates.

MEDALS, PRIZES AND SCHOLARSHIPS IN MEDICINE

MEDALS

The Holmes Gold Medal, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

The Wood Gold Medal, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is not permitted to compete for this medal.

The Sutherland Gold Medal, founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Bio-chemistry, together with a creditable examination in the primary branches.

The Lieutenant Governor's Silver Medal, to be awarded to the student who obtains the highest marks in General Medicine at the end of the Fifth Year.

The Lieutenant Governor's Bronze Medal, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

Prizes

The Joseph Hils Prize. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.).—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

The Joseph Morley Drake Prize. (Founded by the late Joseph Morley Drake, M.D.).—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final Examination in Pathology.

Primary Prize. A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry and Bacteriology).

The F. Slater Jackson Prize. An annual prize of $50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

The Alexander D. Stewart Prize. An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

SCHOLARSHIPS

The Walter J. Hoare Memorial Scholarship.—A sum of money has been donated by Dr. Charles W. Hoare, a graduate of McGill University, as a Scholarship in Medicine, in memory of his son, Walter J. Hoare, who was killed in the Great War. This Scholarship is open to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine.

Six scholarships for Canadian students, four donated in 1927, by Mrs. R. MacDougall Paterson, Mrs. Charles Meredith, Mrs. C. F. Martin and Louis Colwell, Esq., and two in 1928 by C. W. Lindsay, Esq., and A. B. Purvis, Esq. These scholarships are valued at $400.00 each per annum, and extend over the five years of the course. The conditions pertaining to these scholarships may be had on application to the Dean or Secretary of the Faculty of Medicine.

The Dr. J. Francis Williams Scholarship of $500.00, founded by the late J. Francis Williams, M.D., to be awarded to the student of the Final Year who obtains the highest standing in Medicine and Clinical Medicine.

The Dr. J. H. B. Allan Scholarship of $300.00, founded by bequest of Mrs. Agnes W. Allan, wife of the late Dr. J. H. B. Allan, to be used as the Faculty may direct.

For scholarships open to graduates in Medicine, see pages 125 to 132.

PRIZES, SCHOLARSHIPS AND MEDALS IN LAW

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50.00 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15.00 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50.00, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens,

France, on the 28th June, 1917. It is of the value of $120, and is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of the Anglo-Saxon or Celtic origin. The next award of this scholarship will be in 1931.

The Lieutenant-Governor's Silver Medal will be awarded to the student who stands highest in the Final Examination in Roman Law.

The Lieutenant-Governor's Bronze Medal will be awarded to the student who stands highest in the First Year course in Obligations.

No medals, prizes or scholarships will be awarded, if in the opinion of the Faculty there is no candidate of sufficient merit.

For scholarships open to graduates, see pages 125 to 132.

MEDALS AND PRIZES IN DENTISTRY

The F. A. Stevenson Gold Medal.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing will be determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole course.

The Lieut.-Governor's Silver Medal.—Awarded to the student in the Final Year who stands highest in the practical work done during the year and at the final examinations.

The Lieut.-Governor's Bronze Medal.—Awarded to the student obtaining the highest marks, in the Third Year examinations, in Dental Pathology and Dental Therapeutics.

Final Year Prize.—A prize in books will be awarded to the Final Year student who stands second in the class. The standing will be determined in a manner similar to that followed in the awarding of the gold medal.

Third Year Prize.—Two prizes (first and second), in books, will be awarded in the Third Year. The method of determining the winners of these prizes will be similar to that adopted in awarding the prizes in the Final Year.

Second and First Year Prizes.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

MEDALS, SCHOLARSHIPS AND PRIZES IN COMMERCE

A silver medal and a bronze medal have been offered to the School of Commerce by his Honour, the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the best average, throughout his four years of study, in Mathematics, Accountancy, Business Organization and Commercial Law; the bronze medal for the one

who has the best average, throughout the four years of study, in the French and Spanish languages.

Two scholarships of $100 each are offered by Mr. Howard Murray, to the best two students in the Third Year class in French. The winners must continue the study of French during their Fourth Year, and it is during this Year that the scholarships will be paid.

A prize in books is offered by the Spanish Government for distribution as the Department may deem fit, among the best students in Spanish for the Second, Third and Fourth Years, or of the Third and Fourth Years alone.

The Sharp Prize (value $150) in Mathematics and Accountancy. This will be given at the end of the Third Year to the best student in Mathematics and Accountancy (including Business Organization) combined. The Second Year courses to be taken are Accountancy, Mathematics 42 and Mathematics 3 or 4 of the Faculty of Arts. The recipient of the prize must take in his Third Year either Mathematics 8 or whichever of Mathematics 3 and 4 he has not already taken, and he must also take Accountancy in his Fourth Year.

The Royal Bank Fellowship in Economics, value $1,000, open to candidates from all Canadian universities.

SCHOLARSHIPS AND MEDALS IN MUSIC

SCHOLARSHIPS

(1) Peterson Memorial Scholarships.—In memory of the late Principal Sir William Peterson, an endowment fund was created in 1921 which provides for two scholarships each of the value of $175 per annum, awarded annually to students following the course for Mus. Bac. or that for L. Mus., priority being given to the former.

(2) Macdonald Memorial Scholarships.—Two scholarships of the same value in memory of a former Chancellor of the University, Sir William Macdonald, were founded in 1921 and are awarded under similar conditions.

(3) Lindsay Scholarship.—Mr. C. W. Lindsay donates annually a scholarship of the value of $175, which is awarded under similar conditions to the above with the proviso that the recipient's chief subject shall be the Pianoforte.

(4) Ellen Ballon Scholarship.—Through the instrumentality of Miss Ellen Ballon, an ex-student of the Conservatorium of Music, a fund has been created amounting to $1,501.87 to provide a scholarship in the Faculty of Music of the value of $200 per year until principal and interest are exhausted.

(5) Conservatorium Bursaries.—Several bursaries of the value of $75 and $50 are annually granted to deserving students who are debarred for one reason or another from the foregoing scholarships.

MEDALS

1. The Lieutenant-Governor's Silver Medal for the highest standing in the Senior Year.

2. The Lieutenant-Governor's Bronze Medal for the highest standing in the Junior Year.

MEDALS AND PRIZES IN THE SCHOOL OF PHYSICAL EDUCATION

See page 544.

SCHOLARSHIPS, MEDALS, AND PRIZES IN THE SCHOOL FOR GRADUATE NURSES

See page 575.

SCHOLARSHIPS IN THE SCHOOL FOR SOCIAL WORKERS

See page 556.

SCHOLARSHIPS AND PRIZES IN THE LIBRARY SCHOOL

See page 599.

GENERAL SCHOLARSHIPS

The Rhodes Scholarship.—This scholarship, open to students in the Province of Quebec, is of the annual value of £400 sterling and is tenable at the University of Oxford for three years. The scholar must be a British subject, must be over 19 and under 25 years of age and must have reached at least the end of his Sophomore, or Second Year, in the University.

Full particulars can be obtained from Gilbert S. Stairs, B.A., K.C., of McGibbon, Mitchell and Stairs, 132 St. James St. West, Montreal, who is Secretary of the Selection Committee for the Province of Quebec.

Science Scholarships Granted by Her Majesty's Commissioners for the Exhibition of 1851.—These scholarships, of the value of at least £250 sterling a year, are tenable for two, or, in rare instances, three

years. They are limited, according to the Report of the Commission, "to those branches of science, such as physics, mechanics and chemistry, the extension of which is especially important to our national industries." Their object is not to facilitate ordinary collegiate studies, but to enable students to continue the prosecution of science with the view of aiding in its advance or in its application to the industries of the country.

They are open to students of not less than three years' standing who have shown evidence of capacity for original research and are tenable at any institution approved by the Commission.

Three of these Scholarships are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES

(1) OPEN TO MCGILL GRADUATES ONLY AND AVAILABLE AT MCGILL UNIVERSITY OR ELSEWHERE

1. THE MCGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—This scholarship has been founded by the McGill Chapter of the Delta Upsilon Fraternity to perpetuate the memory of the members of that Chapter who gave their lives in the Great War.

It is open to all graduates of the University, and the following considerations will govern the award:—(a) the general scholarship of the candidate; (b) his need of financial assistance for further study; (c) the general usefulness to the community of the special branch of study he proposes to follow; (d) the likelihood that the candidate will reflect credit on the University.

The present value of the scholarship is about $950.

This scholarship will be paid in three instalments, in October, January and April, about the 20th of each of these months, but the second and third instalments will be paid only on receipt of a satisfactory report from the professor or professors under whom the scholar is carrying on his work.

2. THE ALLEN OLIVER FELLOWSHIP.—This scholarship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,* Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The scholarship will be awarded annually to the student who stands highest in first class honours in the Department of Economics

* Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.

and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in McGill University or elsewhere. The present value of the scholarship is about $650.

3. The LeRoy Memorial Fellowship in Geology.—This fellowship was established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917. It will be annually awarded to a worthy student who desires to proceed to post-graduate studies in Geology at McGill University. The recipient of this award may be called upon to assist in the teaching work of the Department. This Fellowship is awarded by the head of the Department of Geology and Mineralogy in consultation with the Principal. It is of the annual value of $700.

4. The Dr. T. Sterry Hunt Research Scholarship in Chemistry.—This scholarship of the value of $1,000 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc. or Ph.D. and have shown high capacity for research.

5. The Moyse Travelling Scholarships.—Two scholarships of the value of $1,500 each, to be known as The Moyse Travelling Scholarships, tenable for one year, have been founded by Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts. One will be awarded for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

Applications are to be made to the Dean of the Faculty of Arts, before the first of April each year.

6. Montreal Manufacturers' Graduate Fellowship.—This fellowship, of the annual value of $800.00, has been established by the Montreal Branch of the Canadian Manufacturers' Association. It shall be awarded annually to a member of the graduating class in honours in Economics and Political Science to be selected by the head of the department. The student receiving the Fellowship shall pursue his graduate studies for the M.A. degree in the department and shall take

as the special subject of his investigation one dealing with Canadian trade or industry approved by the head of the department and by the Chairman of the Montreal Branch of the Canadian Manufacturers' Association.

7. THE GRADUATE (WORKING) FELLOWSHIP; $800 a year. The holder of this fellowship is required to devote one-third of his time to the work of the University in the correction of junior exercises, etc., in the Department of Economics and Political Science.

8. Three research and teaching fellowships of the value of $750.00 each have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third, of a slightly less value, supported by graduates in Mining in the name of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

9. A research and teaching fellowship of the value of $80.00 per month during the University session is offered to students graduating in the Metallurgical Department. The student holding this fellowship is expected to devote two-thirds of his time to research and study for the M.Sc. degree, and one-third to teaching and other work for the Department.

10. A research Scholarship of $1,200, open to members of the graduating class in Chemical Engineering, offered by the New Jersey Zinc Company for research in rubber.

11. THE HUGH MCLENNAN MEMORIAL SCHOLARSHIP.—A scholarship established by Hon. John Stewart McLennan and Dr. Francis and Miss Isabelle McLennan in memory of the late Hugh McLennan, son of the Hon. John Stewart McLennan, who was killed at the Battle of Ypres in 1915. This scholarship is of the value of about $1,000 and will be awarded annually to the student who during his course in Architecture has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

12. THE JAMES DOUGLAS STUDENTSHIP.—A studentship in pathology, given by the late Dr. James Douglas, open to McGill graduates only, tenable for six years and of the value of $1,250 for the first year, increasing to $2,500.

13. THE "MACDONALD TRAVELLING SCHOLARSHIP IN LAW" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income

derived from a capital sum of $20,000, and the scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class who has obtained first or second class honours in the Final Examination.

Women students are not eligible for a Macdonald Scholarship so long as the law excludes them from admission to the Bar in the Province of Quebec.

14. MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died on service during the Great War, 1914-1918. It has a value of about $200 and is available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work, in any branch pertaining to agriculture at any college or university of a recognized standing. Application for this scholarship should be addressed to:—Mr. Emile A. Lods, General Secretary, Macdonald College, P.Q.

15. QUEBEC MINISTER OF AGRICULTURE GRADUATE SCHOLARSHIP.—The Minister of Agriculture of the Province of Quebec offers a scholarship for the session 1930-31 to graduates of the School of Agriculture, Macdonald College (McGill University); of the value of $500 for graduate work at Macdonald College. The holder of this scholarship must be a resident of the Province of Quebec. It will be awarded by the Minister on the recommendation of the School of Agriculture.

16. STUDENT TEACHERS SCHOLARSHIP.—An arrangement has been made between the National Committee for the Training of Teachers, in Scotland and McGill University, for the reciprocal exchange of student teachers.

Students going from McGill must be Bachelors of Arts, or Bachelors of Science in Arts, or Masters of Arts.

They will be assisted for one year and in special cases for two. The allowance will be $1,500 per annum.

They will be expected either to study for a higher degree or to make a detailed study of Scottish educational systems. In the latter case, only one year's studentship will be allowed.

A student teacher, holding an M.A. degree from McGill, may be able to obtain a Scottish Ph.D. in two years.

Applications must be sent to the Principal before May 1st. These must state:—(a) University qualifications; (b) Teaching experience;

(c) Any general experience; (d) Whether the student proposes to study for a higher degree and, if so, for what degree, and whether or not he requires one or two years' assistance.

(2) OPEN TO MCGILL GRADUATES AND OTHERS AND AVAILABLE AT MCGILL UNIVERSITY OR ELSEWHERE

1. POST-GRADUATE SCHOLARSHIPS GRANTED BY THE IMPERIAL ORDER OF THE DAUGHTERS OF THE EMPIRE.—Nine are offered annually—one for each province. They are of the value of $1,400, and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial history, the economics and government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Secretary of the National Chapter of Canada, 238 Bloor Street East, Toronto, 5, Ont.

2. UNIVERSITY WOMEN'S FEDERATION SCHOLARSHIP.—The Scholarship of the Canadian Federation of University Women, of the value of $1,250, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convener of the Scholarship Committee, Mrs. Douglas Thom, 2220 College Street, Regina, Sask.

Applications must be received not later than February 1st.

3. THE PROVINCE OF QUEBEC SCHOLARSHIPS.—Fifteen scholarships are granted annually by the Government of the Province of Quebec to men graduates of a Provincial University desirous of completing their studies in Europe.

Candidates are required to make application to the Principal. Applications must be approved by the Dean of the Faculty to which the candidate belongs or from which he has graduated, and may be supported by other recommendations. Candidates must be Canadians, bona fide residents of the Province of Quebec and not over twenty-five years of age. The Government of the Province does not necessarily accept all the candidates recommended by the University.

Two or three of these are usually awarded to graduates of McGill University.

4. Research Scholarship in Canadian History.—The Scholarship of $2,000, offered by the Women's Canadian Club of Montreal for research study in Canadian History, is open to graduates of McGill. Applicants must be prepared to spend two years of study under the terms of the Scholarship and the stipend will be paid in half-yearly instalments of $500.00 each. Applications should be forwarded to the President of the Women's Canadian Club, 772 Sherbrooke St. West, Montreal.

5. The John Bonsall Porter Scholarship.—This scholarship, of the value of about $500, founded by Dr. W. W. Colpitts, is open to graduate students proceeding to the degree of M.Sc. in Civil Engineering. Applications, which in the case of graduates of other universities must be accompanied by duly certified statements of academic standing and letters of recommendation, should be in the hands of the Dean of the Faculty of Applied Science not later than June 15th.

6. The A. A. Browne Memorial Fellowship.—The sum of $10,000 was received by the Medical Faculty from the committee of the A. A. Browne Memorial Fund. With this sum a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

7. The James Douglas Research Fellowship.—The sum of $25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

8. The James Cooper Fellowships for the Study of Internal Medicine.—This fund of $60,000 was bequeathed in 1912 by the late James Cooper of Montreal to promote study and research in Internal Medicine.

9. The John McCrae Fellowship.—A fellowship of approximately $600, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

10. The John W. Flinn Research Fellowship.—In 1921 Dr. John W. Flinn, of Prescott, Arizona, gave the sum of $5,000, to be

paid in five equal annual instalments of $1,000, this sum to be used for the assistance of medical research in tuberculosis.

11. The Hiram N. Vineberg Fellowship in Gynæcology, of the value of $250.00 per annum, donated in 1924 by Dr. Hiram N. Vineberg, of New York, a graduate of McGill University, 1878.

12. The J. W. McConnell Scholarship.—The sum of $1,000.00 was donated to the Department of Surgery for purposes of research for the year 1925-26. This was renewed each year and in 1928 was increased in value to $1,500. It will be again available for the session 1930-31.

13. The Clara Law Fellowship, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of $1,200 per annum.

14. The P. P. Cowans Scholarship of $1,000.00 was presented to the Department of Surgery and Physiology for purposes of investigation in these subjects during the year 1925-26. It has been renewed each year and will be again available in 1930-31.

15. Scholarships Awarded by the National Research Council:

(a) *The Ramsay Memorial Fellowship,* tenable in Great Britain and of the value of $1,750, open to applicants who have given distinct evidence of a high capacity for independent research in the science of chemistry. The winner of this Fellowship is eligible for re-appointment for a second year.

(b) *Fellowships* of the value of $1,200, open to applicants who have given distinct evidence of capacity to conduct independent research in science.

(c) *Studentships* of the value of $1,000, open to applicants who have already done some original graduate research in science.

(d) *Bursaries* of the value of $750, open to applicants who have graduated with high distinction in scientific study.

Application must be made not later than March 15th. Blanks and circulars containing full information may be obtained from the Registrar of the University.

(3) Scholarships for Graduates of Other Institutions Available at McGill University Only

1. Macdonald Graduate Scholarship.—W. C. Macdonald Reg'd. have offered one scholarship, of the value of $500, for the academic

year and tenable at Macdonald College, to a graduate of the Agricultural Institute at Oka, or of the Agricultural College at Ste. Anne de la Pocatière. Application should be made through the Deputy Minister of Agriculture, Quebec, P.Q.

2. STUDENT TEACHERS SCHOLARSHIP.—An arrangement has been made between the National Committee for the Training of Teachers in Scotland, and McGill University, for the reciprocal exchange of student teachers.

The students coming to McGill will be Honour Graduates in Arts or Science and probably also in Education. They may make a special study of Education or may take up any course leading to the degree of M.A., M.Sc., or Ph.D. If they study for a higher degree, the period and conditions of study will be fixed by the Faculty of Graduate Studies and Research on the recommendation of the Head of the Department in which the work is to be carried on. They will be assisted for one year and possibly for two. Students who study Education will be called upon to furnish a detailed report on their work, in which case only one year's studentship will be allowed. Details of the teaching work will be arranged by the Dean of the School for Teachers.

The value of the Scholarship is $1,500.

FEES

GENERAL FEES

I. MATRICULATION EXAMINATION FEES

For the Junior Matriculation Examination, one dollar per paper, with a maximum of ten dollars and a minimum of two.

For the Senior Matriculation Examination, two dollars per paper, with a maximum of fifteen dollars and a minimum of three.

When the fees from a local centre do not cover the cost of invigilation the extra amount to be paid by each candidate on this account will be determined by the Registrar.

II. SUPPLEMENTAL EXAMINATION FEES

For a regular Supplemental Examination	$ 5.00
For a subsequent Supplemental Examination in the same subject.	10.00
For a special Supplemental Examination	10.00

Fees for supplemental examinations must be paid at the Bursar's office and the receipts shown to the Dean before the examination.

III. STUDENT ACTIVITIES FEE

For the support of certain undergraduate organizations and for admission to the skating rinks and tennis courts during the session and to all home games under the control of the Athletic Board.

For Men Undergraduates	$17.00
For Women Undergraduates	11.00

Partial students who pay the above fees will have the same privileges as Undergraduates in this respect.

IV. CERTIFICATE FEES

For valuation and registration of Certificates which exempt the holder from the greater part of the Junior Matriculation Examination	$ 5.00
For a duplicate diploma	5.00

For a general certificate of standing (after the first) 1.00

For a certificate of standing which gives the candidate's classification in the several subjects of examination (after the first) 2.00

Applications for certificates must be addressed to the Registrar of the University accompanied by the required fee.

V. LATE REGISTRATION FEE

Students of all years above the First who register after the official registration days must pay a fee of $5.00 during the first week of the session, and of $10.00 during the second week.

VI. DIPLOMA FEES

Graduation Fee for a Master's Degree..... $20.00
" " " the Degree of Ph.D. 30.00
" " " " " " D.Litt., D.C.L. or D.Sc. ... 80.00
Graduation Fee for the Degree of Mus. Doc. 100.00

The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee.** If, however, a candidate for the degree of M.A., M.Sc., or M.S.A. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc. or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Fee for a Degree conferred in absence, unless the candidate is excused therefrom by the Faculty concerned $20.00

VII. CAUTION MONEY

Every student in the Faculties of Arts, Applied Science, Medicine and Dentistry and the Schools of Architecture and Commerce is required to deposit at the time of payment of fees the sum of $10.00 to cover damages done to furniture, apparatus, books, etc. This amount less deductions (if any) will be returned at the close of the session. In the Faculty of Law and the diploma-granting Schools the sum to be deposited is $5.00.

REGULATIONS CONCERNING THE PAYMENT OF SESSIONAL FEES

1. Fees are due and payable at the Bursar's Office as follows:—

Students in Medicine	Tuesday, September 23rd Wednesday, September 24th Thursday, September 25th
Students in Dentistry	Friday, September 26th
Students in Arts (Commerce excepted)	
Women	Thursday, October 2nd Friday, October 3rd
Men	Monday, October 6th Tuesday, October 7th Wednesday, October 8th
Students in Commerce	Thursday, October 9th Friday, October 10th
Students in Applied Science	Monday, October 13th Tuesday, October 14th
Students in Law	Wednesday, October 15th
Students in the Schools of Physical Education, Graduate Nurses, Social Workers, Library Administration, Pharmacy, and all other Schools and Departments.	Thursday, October 16th

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

2. After the periods for payment stated above an additional fee of $2.00 will be exacted of all students in default.

3. Students registering late shall pay their fees at the time of registration, failing which they become subject to the provisions of regulation 2.

4. Immediately after October 10th in the case of students in Medicine and Dentistry, and October 20th (in the case of all others), or February 5th (when the fee is paid in instalments), a list of the registered students who have not paid their fees will be sent to the Deans of the several Faculties, or the Heads of Schools, as the case may be, on receipt of which the Dean, or Head, shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

FEES IN ARTS

Sessional fee for the undergraduate course..... $150.00
(This includes fee for library, athletics and graduation.)

By instalments:—

First instalment, if paid before October 16th..... 77.00
Second instalment, if paid before February 5th..... 77.00

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course for the degree of Bachelor of Arts or Bachelor of Science in Arts, as the case may be, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are allowed the like privilege.

Fees for Limited Undergraduates.

In the First and Second Years the fees shall be $26.00 per course; in the Third and Fourth Years $33.00 per course.

Fees for Partial Students.

The fees for partial students are: $4.00 for library, $3.00 for athletics and athletic grounds, and a fee at the rate of $11.00 for an hour a week of instruction during the academic year for courses in the First and Second Years and $14.00 per hour for Third and Fourth Year courses, but the maximum fee shall in no case exceed the full undergraduate fee.

Fees for Laboratory Courses.

$5.00 per hour per week of instruction for the academic year, but the maximum fee shall not exceed $30.00 for any one course nor $60.00 for any one student. This fee will cover laboratory materials, reagents, the use of instruments, and ordinary wear and tear of instruments and apparatus, but it will not cover losses through waste, neglect or breakage. The charges under this head will be deducted from the students' caution money at the end of the session.

Other Fees in Arts.

See under "General Fees," page 33.

FEES IN COMMERCE

Sessional fee for the undergraduate course..... $175.00

(This includes fees for library, athletics and graduation.)

By instalments:—

First instalment, payable before October 15th..... 90.00
Second instalment, payable before February 1st..... 90.00

Any Arts students transferring to Second Year Commerce must pay a fee of $175.00 for that year.

Fees for Limited Undergraduates.

In the First Year the fees shall be $30.00 per course; in the Second, Third and Fourth Years, $35.00 per course.

Fees for Partial Students.

$4.00 for library, $3.00 for athletics and athletic grounds and a fee at the rate of $13.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Other Fees in Commerce.

See under "General Fees," page 133.

FEES IN APPLIED SCIENCE

Sessional fee for the undergraduate course..... $205.00

By instalments:—

First instalment, if paid before October 14th..... 105.00
Second instalment, if paid on or before February 1st..... 105.00

Students taking the summer schools in May and September are required to pay the sum of $35.00, which includes the Caution Money Deposit. This will be placed to their credit on the fee for the following session.

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee for that course.

The fees for partial students are:—$4.00 for library, $3.00 for athletics and athletic grounds, $1.00 for the Undergraduates' Society, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Fee for late registration. Students in all years, other than the first, who register after the official registration dates must pay additional fees as follows:—

For registration during the first week of Session..... $ 5.00
For registration later than the first week of Session.... 10.00

For time for payment and other fees, see under "General Fees," pages 133 to 135.

FEES IN MEDICINE

All students must register with the University Registrar before paying their fees.

Sessional fee $250.00*

By instalments:

First instalment, if paid before September 25th..... $127.50†
Second instalment, if paid before February 1st..... 127.50†

Students repeating the course of study of any academic session are not required to pay full fees. A fee of one hundred dollars will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc.

Students taking out extra dissecting material will be charged at the rate of $10.00 for a half session and $20.00 for a whole session.

An *ad eundem* fee of $10.00 is charged students entering from another university in any Year above the First.

The fee for the graduate course in Public Health, including laboratory fee, the fee for outdoor work and the diploma fee, is $100.00.

For time for payment and other fees, see under "General Fees," page 133.

MICROSCOPES

Each student is required to provide himself, on beginning his studies, with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

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* For students who entered the Faculty prior to the session 1926-27 this fee will be $205.00.

† For students who entered prior to 1926-27, $105.00.

Should the student not be provided with such a microscope, he may purchase a new guaranteed instrument through the Bursar's office of the University for the sum of $105.00 or on the deferred payment plan, by which payment is spread over five years, as follows:—First year, $32.00; second year, $25.00; third year, $22.00; fourth year, $20.00; fifth year, $16.00.

FEES IN LAW

The sessional fee of $205.00 is payable to the Bursar on October 15th, but it may also be paid before October 1st. Students who prefer to do so may pay the fee in two instalments of $105.00 each, the second of which is due on the 1st of February. Students who had been in attendance prior to the session 1929-30 will be permitted to finish their course at the rate of fees at which they began, viz. $155 for the session.

Women students pay an additional fee of $6.00 for the use of the skating rinks and tennis courts during the Session, and for admission to the home games under the control of the Athletic Board; $1.50 for the McGill Daily and $2.50 for the McGill Women Students' Society, which includes all Royal Victoria College Societies. Membership in this Society is also open to women students taking partial courses on payment of the regular fee.

Partial students will pay a fee calculated at the rate of $9.00 for an hour per week of instruction for one half-session, and $3.00 for athletics and the use of athletic grounds.

For time for payment and "General Fees," see page 133.

FEES IN DENTISTRY

Sessional fee	$210.00
By instalments:—	
First instalment, if paid by 25th September	$107.50
Second instalment, if paid by 1st February	107.50

The cost of instruments and material for First Year students is at least $150.00 and for Second Year students $350.00. These instruments are practically all that will be needed in an ordinary dental practice.

Partial students will be admitted to one or more courses on payment of special fees.

Students of this University repeating the course of study of any academic session are not required to pay full fees. A fee of one-half the regular fee will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. Students repeating the Third or Fourth Year will be required to pay in addition a Hospital Fee of $25.00.

An "*ad eundem*" fee of $10.00 will be charged students entering from another university in the Second, Third or Fourth Year of the course.

All undergraduate women students must pay in addition to their tuition fees, $6.00 for athletics and athletic grounds, $1.50 for the McGill Daily and $2.50 for the McGill Women Students' Society.

For time for payment and "General Fees," see page 133.

FEES IN MUSIC

CONSERVATORIUM FEES

The fees will be as follows:—

Regular Students. $225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of $115.00 each, payable before October 1st and February 1st, respectively. This sum will also cover the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

Partial Students. $50.00 to $60.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each will be allowed to take the examination for a Certificate at the end of the year without any further fee.

Class Students. Fees vary between $5.00 and $25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, will be the same as the fees for the Local Examinations. See page 499.

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

FEES FOR DIPLOMA AND DEGREE EXMINATIONS

Diploma of Licentiate (L. Mus.)—Fees for examination, $45.00, of which $15.00 is payable at each examination. Diploma fee, $5.00.

Degree of Bachelor of Music (Mus. Bac.).—Matriculation fee, $10.00 (see University Calendar). Fees for examinations payable as follows:—First examination in Music, $20.00. Second examination in Music, $20.00. Final examination in Music, $20.00. Graduating fee, $20.00.

Although under special conditions exemptions from certain examinations for the Diploma of Licentiate and Degree of Bachelor of Music may be allowed, there will be no exemption from the *fees* given above, except in the case of candidates holding McGill Local Centre Certificates.

Degree of Doctor of Music (Mus. Doc.).—Fee $100.00, one-half of which ($50.00) is to be paid when submitting exercise and the balance ($50.00) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

FEES IN THE FACULTY OF GRADUATE STUDIES

For the course leading to the degree of M.A., M.Sc., M.S.A. or M.Com.	$60.00
For each year of the course leading to the degree of Ph.D.	60.00
Graduation fee for M.A., M.Sc., M.S.A. or M.Com.	20.00
Graduation fee for Ph.D.	30.00
Graduation fee for D.Litt.	80.00
Graduation fee for the Degree of D.C.L.	80.00
Graduation fee for the degree of D.Sc.	80.00
Graduation fee for the degree of Mus. Doc.	100.00
Fee for a degree conferred in absentia	20.00

Fee for partial students—according to number of lectures and laboratory work taken.

Students taking the advanced Summer course in French will be remitted $20.00 from the fee for M.A. for each Summer course.

Laboratory fee, $5.00 per hour, with a maximum fee of $25.00.

Every student in Chemistry is required to deposit with the Bursar the sum of $20.00 as caution money to cover 10% of the cost of all chemicals and other supplies used by the student and damages done to furniture, apparatus, books, etc. This amount, less deductions, will be returned at the close of the session.

Registration:—Students taking more than one year for the degree of M.Sc., M.Sa. or M.A. and those taking more than three years for the Ph.D. degree are required to pay only $5.00 on registration for each additional year.

All fees for courses of instruction are payable on registration.

There is no fee for the degrees of LL.D. or M.A. when granted *honoris causa.*

The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee.** If, however, a candidate for the degree of M.A., M.Sc., or M.S.A. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc. or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Lecturers, tutors and demonstrators in the University who are proceeding to the degree of Master of Arts, Master of Science, Master of Science in Agriculture or Doctor of Philosophy shall, so long as they remain members of the teaching staff, be exempt from the tuition fee, but will be required to pay laboratory and registration fees and the fee for graduation in every case. In the event of their leaving the staff after one year of the course, they are required to pay a tuition fee of $20.00 in the M.A., M.Sc. or M.S.A. course and the prescribed fee in the Ph.D. course.

FEES IN THE SCHOOLS OF PHYSICAL EDUCATION, SOCIAL WORKERS, GRADUATE NURSES AND LIBRARY ADMINISTRATION

See pages 543, 557, 576 and 599.

STUDENTS' EXPENSES

1. BOARD AND RESIDENCE

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 772 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

Information about boarding and lodging houses may be had on application to the Secretary at Strathcona Hall. A list of suitable houses is prepared about a fortnight before the opening of the session each year. Owing to frequency of change, this list is not mailed.

The Royal Victoria College provides, in addition to separate lecture rooms, residential accommodation for the women students of the Faculties of Arts and of Music. The expense of board and residence for the session in the Royal Victoria College is $500. Further particulars will be furnished by the Warden.

The Department of Physical Education maintains a Hostel for Students of the School of Physical Education. The expense of board and residence for the session is $520. Full particulars will be furnished by the Secretary, School of Physical Education.

Board and lodging can be obtained in several of the theological colleges affiliated to the University and also in the numerous Fraternity houses in the vicinity of the College campus. The price of board and room in private houses is from $60.00 and upwards per month; or, separately, board at $45.00 to $55.00 per month, rooms from $15.00 to $20.00 per month.

Board is furnished in the McGill Union at low rates. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

2. APPROXIMATE COST OF COURSE PER YEAR

Faculty of Arts (Men).

(In all Years except the last the session extends from October 1st to May 15th. The course is one of four years.)

	Minimum	Moderate
Tuition Fees	$125	$125
Fee for Athletics, Union, etc.	17	17
Board and Lodging	450	550
Books, Apparatus and Laboratory Fees	33	38
	$625	$730

Faculty of Applied Science.

(In all Years except the last the session extends from October 1st to May 1st with, as a rule, two or three summer schools of from three to four weeks' duration—Course, four years, with a preparatory year in the Faculty of Arts or Senior Matriculation.)

	Minimum	Moderate
Tuition Fees	$205	$205
Fee for Athletics, Union, etc.	17	17
Board and Lodging	435	525
Books and Instruments	43	53
	$700	$800

The sum of from $60.00 to $75.00 per year will also have to be reckoned on as extra expenditure in connection with the summer schools.

Faculty of Medicine.

(In all Years except the last the session extends from about September 20th to May 20th. Course, five years, preceded by at least two pre-medical years in the Faculty of Arts.)

	Minimum	Moderate
Tuition Fees	$250	$250
Fee for Athletics, Union, etc.	17	17
Board and Lodging	480	560
Books, Instruments, etc.	153	173
	$900	$1.000

Undergraduates in Arts residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and in all Faculties the expense under the head of "Books and Instruments" can be reduced by purchasing these at second-hand.

It will be noticed that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc., nor yet of the caution money deposit which is made by each student at the commencement of the session. This amounts to $5.00 in the Faculty of Law and $10.00 in the Faculties of Arts, Medicine and Applied Science. It would be well also to reckon on at least $20.00 to $25.00 per annum for subscriptions of various kinds.

MORALS AND DISCIPLINE

1. University discipline shall be exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases hereinafter mentioned to revision or confirmation by Corporation.

2. Subject to the provisions of the following sections, each Faculty shall be entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be dealt with by a standing Committee of Corporation, to be known as the Committee on Morals and Discipline. The Committee shall have power to summon as assessors the President and Vice-President of the Students' Council.

4. All such cases of discipline as are referred to in sub-section 3 shall be reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the city. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary, the matter shall be reported to the Committee on Morals and Discipline. Corporation shall also have the power to report such matters to the said Committee.

5. When sentence of expulsion, or of suspension for more than three months, has been pronounced or recommended by a faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal, which shall be final.

6. "University discipline" shall mean any appropriate method of exercising authority over students, and shall, but without prejudice to the foregoing generality, include the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding $25.00 on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any students found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property, shall be liable to University discipline.

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage be done to University property, or acts committed meriting discipline, and the individuals who have done such damage or committed such acts have not been discovered, an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.

ACADEMIC DRESS

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have been granted by the Faculty.

Undergraduates shall wear a plain black stuff gown, not longer than half way between the knee and the ankle, with round sleeves cut above elbow.

Bachelor of Arts.—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture.—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelor of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Bachelor of Architecture.—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Music.—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Bachelor of Commerce.—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

Master of Arts.—Black gown of stuff or silk, falling below knee, with long sleeves with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science.—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Master of Commerce.—The same gown as Masters of Arts; hood, black silk, lined with purple silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Dental Surgery.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Music.—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

Doctor of Philosophy.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Law, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

For the information of graduates in Great Britain, it may be stated that the gowns and hoods for the various degrees specified above can be purchased from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.

FACULTY OF ARTS

The work done by McGill College, usually called the Faculty of Arts, covers all the work of the University in Arts, Pure Science and Commerce. Students should not confuse the work in Pure Science leading to the degree of B.Sc. with the work of the Faculty of Applied Science or Engineering. A separate announcement is published covering the work in Commerce.

Students may enter the undergraduate course by passing either the Junior or the Senior Matriculation Examination. In the former case, in order to obtain the degree of B.A. or B.Sc., they are required to attend regularly the prescribed courses of lectures for four years; in the latter, for three. No course or courses can be counted towards a degree or diploma in the Faculty of Arts except such as have been taken and passed after matriculation requirements have been satisfied and according to the regulations governing the various Years of the undergraduate course. Undergraduates are arranged in Years, from First to Fourth, according to their academic standing. The respective conditions of passing into the last three Years of the course are stated on page 163. The pass mark in all subjects of examination throughout the course is 50% and the marks for second and first class standing are 60% and 75% respectively.

An undergraduate may proceed to the degree of B.A. by taking either the General course or one of the Honour courses.

1. GENERAL COURSE FOR THE DEGREE OF B.A.

In each of the First and Second Years five courses shall be taken, i.e., fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses (twelve hours). The third hour in each course each week may be devoted to group conferences.

FIRST YEAR

(a) Compulsory.

Latin or **Greek.**
English 1 and 2.
Mathematics.
But in the case of students who have already shown some aptitude in languages and are permitted to take three languages (exclusive of English), Mathematics shall not be compulsory.
Physical Education (two hours per week).

(b) Elective.

Two of the following:—
History.
Greek or **Latin** (if not already taken).

French.
German.
Science (Physics or Chemistry* 1 and 1C or Botany 1 and Zoology 1.)

For the subjects required to be taken by students who wish to qualify for the First Class High School diploma of the Province of Quebec, see page 180.

Details of the work in each subject are given on pages 165 to 222.

Advanced Courses.—A student qualified to take work of a more advanced character than that in the general course of the First Year in any subject, may take such advanced work in that subject as the department concerned may recommend. Students taking advanced courses may be excused from the corresponding general courses on the recommendation of the department.

Advisers.—A Board of First Year student advisers, consisting for the most part of members of the Staff teaching First Year subjects, shall be appointed each year. The Board shall have an executive committee, the Chairman of which shall be the Chairman of the Board. The Board, the Executive Committee and the Chairman shall be appointed by the Dean.

The number of advisers shall, if possible, be large enough to preclude the possibility of any one of them having more than ten advisees.

All First Year students should interview their advisers at least once a month.

Interim Tests and Probation.—There shall be two regular interim tests for all students of the First Year, the first to be held near the middle of the month of November and the second during the week preceding the Christmas vacation. There is no regular prescribed form of test, but it shall be as near as possible the equivalent of a standard examination of one hour's duration. All students who fall below the required standard in more than one-third of these tests shall be placed on probation for the rest of the academic year. During this period of probation students shall not be allowed to become members of a College athletic team or to hold office in any College society or to take part in any major student activities. All students who are below the required standard in one-half or more of these tests shall be dropped from the University for that year and shall not be allowed to re-enter the University except with the consent of the Faculty. Reports on First Year students who are delinquent in their tests shall be submitted promptly to the Dean's office by the examiners.

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*A course in high school Physics or Chemistry is a prerequisite for the Chemistry option.

SECOND, THIRD AND FOURTH YEARS

Students shall choose two subjects for continued study through the Second, Third and Fourth Years.

These shall be designated *continuation subjects.*

In each of the continuation subjects, a full course or two half courses will be taken each year.

One of the continuation subjects must be selected from Division I below, and one from Division II, or both must be selected from either Division I or Division II.

Division I	Division II	Division III	Division IV
English.	Economics.	Botany.	Education.
French.	History.	Chemistry.	Ancient
German.	Mathematics.	Geology.	History.
Greek.	Philosophy.	Physics.	
Hebrew.	Political Science.	Zoology.	
Latin.	Psychology.		
	Sociology.		

Physical Education is compulsory in the Second Year for two hours per week.

Additional courses, or the equivalent number of half courses, shall be chosen as follows:—

In the Second Year—Three additional full courses;

In the Third Year—Two additional full courses;

In the Fourth Year—Two additional full courses.

Of the additional courses *one* must be selected from Division III unless the student has already passed in a science subject in the First Year; *one* also must be a modern foreign language, from Division I, unless the student has chosen such a language as a continuation subject, or has passed it in the First Year.

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Only those courses may be chosen for which the student has fulfilled the prerequisites laid down by each department.

Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures or laboratory periods.

All students are required to consult one of the Departments in which they are doing continuation work on the selection of these additional subjects.

Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these Years, or a whole course in either.

LIST OF COURSES AND PREREQUISITES

Second Year		Third Year		Fourth Year	
Course	Prerequisite	Course	Prerequisite	Course	Prerequisite
DIVISION I.					
English, 3, 4, 6, 7, 15	1 and 2				
French, 2	1	4, 5	2	6, 7	2
German, 5, 6. 4	1 or 2 3	8, 9, 10, 11, 12, 13	5 or 7	8, 9, 10, 11, 12, 13	5 or 7
Greek 2	1				
4	2	5, 6	2 or 4	5, 6	2 or 4
Hebrew 1		2, 3, 5, 8	1	3, 5, 8	1
		3, 4, 6, 8	Greek 1	3, 4, 6, 7	Greek 1
		9, 10		9, 10	
Latin 2	1	3, 4	2	3, 4	2
DIVISION II.					
Economics, 1, 2		4, 5, 6 7, 8, 9	1 or 2 or 3.	10, 11, 12, 13, 14, 15, 16, 17, 18, 34	1 or 2 or 3..
History 2, 3.	1	3, 4, 5	A 2nd Year Course	4, 5, 6	Any 3rd Yr. Course.
Mathematics 2, 3, 4, 5	1	2, 3, 4, 5	1	2, 3, 4, 5	1
		6, 7, 8	3 and 4	6, 7, 8	3 and 4
				9	8
Philosophy 3		2, 3, 4	1	5, 6, 7, 8, 9	1 and 2 or 3 or 4
Political Science 3		4, 5, 8, 9	1 or 2 or 3	12, 13, 14	1 or 2 or 3
Psychology 1		2, 3, 4, etc.	1	2, 3, 4, 5, 9, etc.	1
Sociology 1		2, 3, 4, 7	1	2, 4, 5, 6, 7, 8, 9, 11, 12, 13	1
DIVISION III.					
Botany 2	1	3	1, or Zool. 1	6, 8	2
3	1, or Zool. 1	4	3	7	2
Chemistry 2	1 and 1c	2	1 and 1c	2	1 and 1c
3	2	3	2	3	2
Geology		2, 3, 4, 12	1	2, 3, 4, 12	1
Physics 3	2 (and Math. 1)	3, 4	2 (and Math. 1)	3, 4	2 (and Math. 1)
		5, 6	3, 4 (and Math. 3)	5, 6	3, 4 (and Math. 3)
				7, 8	5, 6a (and Math. 7)
Zoology 2-4	1	2-5, 7	1	2-5, 7	1
DIVISION IV.					
Education				2	1

Details of the work in each subject are given on pages 165 to 222.

Honour lectures are open to candidates for the General degree in the Third and Fourth Years, on the recommendation of the department concerned and with the approval of the Dean.

II. HONOUR COURSES FOR THH DEGREE OF B.A.

Honour courses may be elected in any two combined cognate departments or in any single department.

The arrangement of combined honour courses shall be left to the departments interested, and in cases of doubt or disagreement shall be referred to the Faculty for final decision.

In the Honour courses in combined departments, when the departments are divided into two sections (as **Classics** into Greek and Latin, **Economics** and **Political Science** into Economics and Political Science), the graduate's certificate shall designate by name the sections in which Honours have been taken (*e.g.*, First Class Honours in Greek and Second Class Honours in Latin); but in Honour courses in combined departments, where the departments are not divided into sections (as English, History, Sociology, etc.), the graduate's certificate shall indicate that the work done in each of the departments amounts to only half of a full Honour course in that department—*e.g.*, First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half).

Subject to the qualifications hereinafter referred to, Honour courses may begin in the Second Year. Departments, however, should, whenever possible, have advanced classes or sections for the better students of the First Year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes and the Head of the Department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honour course in that subject at the beginning of his Third Year.

The conditions for entering Honour courses in the Second Year are as follows:—

(a) A student must not have failed in more than one subject at the final Spring examinations in the First Year.

(b) The sanction of the Dean and of the Head or Heads of the Departments in which Honours are elected must be obtained.

(c) No student shall take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

Honour students who fail to attain second rank honour standing at the end of the Second Year shall revert to the General course in their next and following years, unless they obtain special leave to continue their honour work from the department or departments interested.

Honour courses in the Second Year shall consist of 15 hours and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work shall also involve wide reading and study in the subject, apart from the actual subjects of lectures, in accordance with a definitely prescribed programme.

Attention is drawn to the fact that lectures will not be given on all parts of the work.

In the Second Year a student registering for Honours in one subject only will fulfil the requirement of fifteen hours by taking a minimum of two courses or six hours in his Honour subject, and, in addition, such other courses (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects will fulfil the requirement of fifteen hours by taking two full courses in each Honour subject, or twelve hours altogether, and, in addition, one other course, making a total of fifteen hours, as the two departments concerned may direct. A student who has failed in any such subject in the Third Year examinations shall not be allowed to continue his Honour course except with the consent of the Faculty.

Departments shall be at full liberty to recommend their Honour students to take one or more courses in cognate departments as the equivalent of courses in their own departments.

A student's whole record during his Second, Third and Fourth Years may be considered in awarding Honours at graduation.

Students in Honour courses who fail to attain second rank honours at graduation, or who only succeed in attaining second rank honours in one of two combined courses, shall revert to the list of General students.

Honours shall be awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

Honour lectures are open to candidates for the General degree in the Third and Fourth Years, on the recommendation of the department concerned and with the approval of the Dean.

The examinations for Honours will not be conducted exclusively by persons who have given the courses.

III. THE GENERAL COURSE FOR THE DEGREE OF B.Sc.

An undergraduate may proceed to the degree of B.Sc. in Arts by taking either the General course or an Honour course.

This course has been arranged to give students a training in science as a preliminary to entering a technical business or profession, or for teaching.

First Year

English 1 and 2.
French 15 or German 3 or 4.
Mathematics 1.
Physics 1 or 2.
Chemistry 1 and 1C.

Details of the work in each subject are given on pages 165 to 222.

Second Year

In addition to English, four subjects must be taken, of which three must be selected from Group I below. The fourth subject is either French 15 (if not already taken), German 3 (if not already taken), or German 4.

Third and Fourth Years

Two subjects selected from Group 1 must be continued in the Third and Fourth Years and two other subjects must be taken.

GROUP I

SUBJECTS	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biology.	Zoology 1. Botany 1.	Zoology 2 *or* 4; *or* Botany 6 and 8.	Botany 6 and 8 *or* Zoology 2 *or* 4.
Chemistry.	2 *or* 3, and 4.	2 *or* 3, and 9.	5 *or* 6 and 8.
Geology.	1.	5 and 6.	2 and 3.
Mathematics.	3.	4 and 5.	7.
Physics.	2 (*or* 3A, if 2 has been taken).	3A (*or* 3B and 4, if 3A has been taken).	3B and 4 (*or* 5A and 8A; *or* 8A and 9).

GROUP II

SUBJECTS	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Economics and Political Science.	1 *or* 2.	Any one of:—4 and 5, 6 and 7, 8 and 9.	Any one of:—4 and 5, 6 and 7, 8 and 9 (if not chosen in the Third Year), 12 and 13, 14 *or* 15.
Education.		1.	2.
English.	4, 6, 7 *or* 8.	Any one of:—4 to 11. 15, 18.	Any one not taken in the Third Year, of 4 to 11, 15, 18.
French.	2.	4 *or* 5.	4 *or* 5.
German.	3 *or* 4.	7 *or* 8.	7 *or* 8.
History.	2 *or* 3.	4.	5 *or* 6.
Philosophy.	1.	Any one of:—2, 3, 4	2 *or* 3 *or* 4, whichever has not been taken in the Third Year.
Psychology.	1.	Any full course of 2-14.	Any full course of 2-14, not taken in the Third Year.
Sociology.	1.	2, *or* 3 and 4, *or* 5 and 6.	2, *or* 3 and 4, *or* 5 and 6, any course not taken in the Third Year.

Students selecting Physics, as one of the three subjects of the general B.Sc. course, must also select Mathematics.

A student in the Fourth Year may be allowed to drop one of the two compulsory subjects and to take an equivalent amount of work in the other compulsory subject.

IV. HONOUR COURSE FOR THE DEGREE OF B.Sc.

Students proposing to take an Honour course must select one principal subject from Group 1 (page 154), in which subject they must have obtained at least high second class standing in the First Year. If the subject chosen for Honours is not offered in the First Year, an aggregate standing of high second class must be obtained in all subjects of the First Year.

Students who fail to retain their Honour standing will be required either (1) to repeat the year in Honours or (2) to repeat the year in the General course or (3) to proceed to the following year, reverting to the General course at the discretion of the B.Sc. Advisory Committee.

The exact courses of study will be specified by the department concerned. All students will be required to take a course in German 4.

V. COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics, who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of industrial corporations, in consulting work, and in University appointments.

In view of these facts, a course in Engineering Physics leading to the degree of B.Sc. in Arts has been arranged. It is open to capable students in Arts or Applied Science:—

1. To students in Arts entering their Third or Fourth Year, provided they have satisfactorily passed in the following prerequisites:—

Mathematics 3, 4, 5.
Physics 3, 4.
Chemistry 1 *and* **1C.**

2. To students in Applied Science who have completed the Second Year and have received first or second class rank in Mathematics and Physics, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

During their summer vacation at the end of the Second Year, students are advised to spend three months at an approved shop or radio station.

Third Year

Mathematics 6, 7.
Physics 5A, 5B, 6B (*or* **8B**).
Electrical Engineering 113, 114.

Fourth Year

Mathematics 10 *or* **11.**
Physics 6A, 7A, 7B, 8A *and* **8B** (*or* **6B**).
Summer Thesis or Shop Work.

The student may now receive the degree of B.Sc. in Arts, with Honours in Mathematics and Physics. In the Fifth Year the student

should take a selection of the Fourth Year course for Electrical Engineering in Applied Science, and also Physics 9 and 10, and one of 11, 12, 13, 14, 17, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore cover five years and may cover six. During the last year (the sixth) opportunity may sometimes be afforded to act as demonstrator with a salary or to apply for Research Council Bursaries, etc.

VI. COURSE FOR B.Sc. IN THE BIOLOGICAL SCIENCES

The University offers the following special course for students especially interested in biological studies.

Students may enter these special courses upon completing the First Year of the B.A. or B.Sc. course, comprising the following subjects:—

English 1 and **2, French** *or* **German** (German is recommended).

Mathematics 1, Chemistry 1 and 1C.

and one of the following:—

Physics 1, 2 *or* **2P.**

Biology (Botany 1 and **Zoology 1).**

Latin 1.

Second Year

Five of the following subjects are to be selected:—

English, German, Mathematics 3.

Chemistry 2, 3, 4 (not more than two of these courses may be taken during the year).

Physics 1 *or* **2** *or* **2P** *or* **3A.**

Biology (Botany 1 and **Zoology 1)**—compulsory if it has not been already taken.

Botany.

Zoology.

Physiology 1. (See page 158.)

NOTE.—1. At least one of the three first-mentioned courses must be taken.

2. Students are recommended to take Mathematics.

Third Year.

Four courses are to be selected. Of these at least two and a half must be of a biological character:—

Chemistry 2, 3, 4.
Physics 2 *or* **2P** *or* **3A.**
General Physiology (Botany 6 *and* **8).**
Botany (one or two courses).
Physiology 1. (See below.)
Histology and **Embryology** (Histology 1—half course—*or* **1** and 2—whole course. (See page 159.)

Fourth Year

Three courses are to be selected, special attention being devoted to one of the four first-mentioned subjects:—

Botany.
Zoology.
Physiology 2 and 3 (count as one course). (See below.)
Biochemistry 1 and **2** (count as one course). (See page 159.)
Histology and **Embryology 1** *or* **2** (if **1** has already been taken) *or* 1 and 2 (which form a whole course). (See page 159.)
Bacteriology. (See page 159.)
Comparative Anatomy of Primates (Anatomy 11). (See page 159.)

During this year the student's ability to read scientific books and papers in German and French will be tested by the Department in which he is taking his major work.

Prerequisites.—Information as to prerequisite courses will be found in the Announcements of the various courses. Before selecting the subjects for the Third and Fourth Years of their course, students must consult with the Heads of the Departments concerned.

In addition to those in Botany and Zoology, the following courses are offered:—

Physiology.

1. *Introductory Course* (lectures and demonstrations).
   6 hrs. a week, Spring semester.

2. *Systematic Physiology.*
   3 hrs. a week, Autumn and Winter semesters.

3. *General Laboratory,*
   6 hrs. a week, Autumn semester.

Biochemistry.

1. *Lectures.*
   5 hrs. a week, Autumn and Winter semesters.
2. *Laboratory.*
   12 hrs. a week, Autumn and Winter semesters.

Histology and Embryology.

A special course in this subject will be offered by Dr. J. C. Simpson.

Bacteriology.

A special course in this subject will be offered by Dr. F. C. Harrison.

Anatomy.

A special course offered by Dr. Beattie (prerequisite: Zoology 4) in the Anatomy of the Primates.

VII. COURSE FOR THE DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE (B.H.S.)

The first year may be taken in the Faculty of Arts of McGill University or of any other University where similar courses are studied. Inorganic Chemistry is compulsory in this year. The last three years are to be taken in the School of Household Science of Macdonald College. Candidates, however, who have competed the first two years of the work required, at Macdonald College, or its substantial equivalent, at McGill or at any other recognized college, may be permitted, with the consent of the Dean of the Faculty of Arts at McGill, to enter the Third Year of the course.

For subjects to be taken in the Third and Fourth Years, see Macdonald College Announcement.

VIII. COURSE FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE (B.Sc. IN AGR.)

(1) *Courses for students who wish to qudify as Teachers.*

In this course the first two years are taken in the Faculty of Arts and the last two in the Faculty of Agriculture In order that students taking this course may have their degree accepted as the academic

requirement for the High School Diploma in the Province of Quebec, the courses in the first two years must be those laid down by the Protestant Committee of the Department of Education, as stated on page 180.

In the Third and Fourth years, taken in the Faculty of Agriculture at Macdonald College, the continuation subjects for the High School Diploma are:—Chemistry, Physics, and Botany, in which three full courses must be taken each year. At least one other full course must be taken each year, such course to be chosen with the approval of the Faculty from the following: Entomology, English, Economics, Zoology, Bacteriology, Horticulture.

In Chemistry, Physics and Botany the courses will be selected from the following, which appear in the Macdonald College Announcement:

Chemistry—Course 2—Organic Chemistry.
" 3—Analytical "
" 5—Biochemistry.
" 6—Chemistry of Soils and Fertilizers.
" 12—Physical Chemistry.
Physics— Course 3—Light.
" 4—Electricity.
" 5—Soil Physics.
" 6—Physical Measurements.
Botany— Course B-2—Plant Physiology.
" B-3—Histology and Cytology.
" B-4—Plant Morphology.
" B-5—Systematic Botany.
" P-2—Diseases of Plants.

(2) *Course for all Others.*

Those who do not desire to qualify for the High School Diploma may proceed to the Degree of B.Sc. in Agr. by taking the first two years of the general course for the B.Sc. in Arts and the Third and Fourth Years in the Faculty of Agriculture at Macdonald College.

Two subjects must be taken for continuation courses throughout the Third and Fourth Years. Additional subjects to complete the minimum requirement of five full courses (15 hours of class work per week) each year shall be chosen with the approval of the Faculty, from the courses offered in Agriculture.

PARTIAL STUDENTS

A limited number of Partial Students may be admitted to study each year in the Faculty of Arts. Partial Students before registration must satisfy the Dean and the Head of the Department or Departments which they propose to enter that they are able to follow the course or courses they select, and they must fulfil all the requirements of class-room work and tests prescribed for regular students in these courses. Candidates will not be permitted to enter as Partial Students who have unsuccessfully attempted the matriculation examinations unless they have made an exceptionally high mark in the subject or subjects which they intend to select. Subject to the above limitations, lectures are open to Partial Students in both Honour and General classes, but no course or courses taken by any such students can count for a degree except by virtue of a special vote of the Faculty. Medals, scholarships, exhibitions and prizes shall not be awarded to Partial Students.

LIMITED UNDERGRADUATES

Students who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years, may, if those reasons appear satisfactory to the Dean, be accorded the status of Limited Undergraduates. Such Limited Undergraduates may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.

Limited Undergraduates will not be eligible for honour courses, scholarships, exhibitions, bursaries or prizes of any description. For fees, see page 136.

MID-SESSIONAL EXAMINATIONS

Except as hereinafter provided by this rule, all University mid-sessional examinations in courses of study conducted throughout the whole academic year are discontinued, but members of the teaching staff are at full liberty to give such interim tests or examinations as they may think requisite from time to time.

The final examinations in all half courses ending at mid-session may be held at mid-session or during the final examination period in the Spring, at the option of each department interested. Any department desiring University accommodation for mid-sessional examinations in courses completed at the end of the first half term must apply in writing to the Dean not later than the first day of January.

SUPPLEMENTAL EXAMINATIONS

The regulations governing supplemental examinations are as follows:—

A student conditioned in a course may remove the condition during the next Calendar session by passing—

(1) the supplemental examination in September following, or,

(2) a special supplemental examination in February following, or,

(3) upon application to the Dean and on payment of the fee prescribed for a special supplemental (always on the understanding that there is no conflict in the time-table), at the sessional examination in May. If by the close of that session the condition has not been removed, the student may take, within the Calendar session next following, *but not thereafter,* one of the three separate examinations as enumerated above, but on the understanding that the fee payable in September or in May shall be the same as that prescribed for a special supplemental. All applications for supplemental examinations must be made to the Dean in writing.

Any student who fails in more than one-half of his subjects in the First Year shall be refused leave to return to the College. These students are not precluded, however, from entering the Second Year if they pass the full set of examinations required for senior matriculation. Any student who fails in one-half or more than one-half of his subjects in the Second, Third and Fourth Years will be obliged to repeat the Year.

The fee for supplemental papers is $5.00 and for special supplementals $10.00 for each paper. A second supplemental examination in any subject is always ranked as a special supplemental. These fees must be enclosed with the written application.

DISTINCTION IN THE GENERAL COURSE

Students of exceptional merit in the General Course will be awarded distinction at graduation in two classes, viz., Great Distinction and Distinction, and these awards will be made upon the student's record during his Second, Third and Fourth Years. At least an average first class standing will be required for Great Distinction and an average second class standing for Distinction.

ADVANCEMENT FROM YEAR TO YEAR

Advancement to the Second Year.—A student may proceed to the Second Year with any one full course, or two half courses, unpassed.

Advancement to the Third Year.—A student may proceed to the Third Year with any one full course, or two half courses, unpassed, unless that full course, or one of the two half courses, belongs to the First Year.

Students of good standing, however, who have succeeded in passing all courses required in the Second Year may be allowed by special permission of the Dean to proceed into the Third Year carrying a condition in one full course, or in two half courses, from the First Year.

Advancement to the Fourth Year.—A student may proceed to the Fourth Year with any one full course, or two half courses, unpassed, unless that full course, or one of the two half courses, belongs to the First or Second Year of his course.

Repeating a Year.—By special permission of the Dean, a student who is permitted to repeat a Year may, on application:—

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed;

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year in his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

The Faculty of Arts assumes no responsibility for arranging or directing courses of study for students intending, at the end of their First, Second or Third Year in Arts, to enter one of the other Faculties of the University.

Such students are advised, before registering for the first time under the Faculty of Arts, to acquaint themselves with the entrance requirements laid down by these other Faculties. They must consider the fulfilment of these requirements as only incidental to a course in Arts; and they must follow the regulations of the curriculum in Arts as though they were proceeding to an Arts degree.

All undergraduate students in the Faculty must register for one of the Bachelor's degrees offered, viz.: B.A., B.Sc., or B.Com. Students who have successfully completed the First Year leading to the degree of B.A. or B.Sc. may apply for admission into the Faculty of

Applied Science, provided they have completed the course in English, Mathematics, Physics and two other subjects.* Students who have successfully completed the first two years of the B.Sc. course or the first three years of either the B.A. or the B.Sc. course may apply for admission into the Faculty of Medicine or of Dentistry, provided they have successfully followed for one year the regular course in each of the following subjects:—viz., Physics, Inorganic Chemistry, Organic Chemistry and Biology. A minimum of two years is required for admission into the Faculty of Law.

Students completing three years in Arts and two years in Medicine are entitled to apply to the Faculty of Arts for the degree of B.Sc.

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* In 1932 Chemistry will also be compulsory.

COURSES OF LECTURES IN ARTS

The hours of all General lectures and most of the Honour lcetures are indicated. In the case of the other Honour lectures the hours will be arranged by the several departments at the opening of the session.

DEPARTMENT OF BOTANY

PROFESSORS:—FRANCIS ERNEST LLOYD. GEORGE W. SCARTH.

ASSOCIATE PROFESSOR:—C. L. HUSKINS.

LECTURER:—R. D. GIBBS.

INSTRUCTOR IN BOTANY:—JANE D. SPIER.

DEMONSTRATORS:—C. W. ARGUE. ————————.

RESEARCH ASSOCIATE:—

PROFESSOR VLADIMIR MORAVEK, Ph.D., Institute for Plant Physiology, Masaryk University.

1. **General Botany.** Introductory Course. First Year.
Second term; Mon., Wed., at 2; laboratory, Tues. or Friday, 2-4.
Professors Lloyd, Scarth, and Mr. Gibbs.
(Taken with Zoology 1 as 1st year Biology.)

1M.—General Biology (Plants). Part I, Microscopy (October), and III, Plant Biology (March to April).
Tu., Th., at 2; laboratory, Mon., Wed., Fri., 9 to 11.
Professors Lloyd, Scarth and Mr. ————————.
See **Zoology 1M** for Part II.

2. **Plant Morphology and Taxonomy.** Second Year.
Tu., Th., Sat., at 9; four hours laboratory.

3. **Evolution and Genetics.** Second or Third Year.
Mon., Wed., Fri., at 9; two hours laboratory.
(May be taken without laboratory work as a half course.)
Professor Huskins.

4. **Histology: Microtechnic.** Second or Third Year.
Mon., Wed., Fri., at 2; four hours laboratory.
Professor Lloyd and Mr. Argue.

5. **Cytology.**
(To be arranged.)

6. **Introductory General Physiology.** Third or Fourth Year Arts, optional in Medicine.
First term; Mon., Wed., Fri., at 9; four hours laboratory.
Professors Lloyd and Scarth.

7. **Plant Pathology.** Fourth Year.
Mon., Wed., Fri., at 2; four hours laboratory.

8. **Plant Physiology: Problems.** Third or Fourth Year Arts.
Second term.
Three hours reading; four hours laboratory.
Professors Lloyd, Scarth, and Mr. Gibbs.
Note:—Courses 6 and 8 constitute plant physiology for one session.

9. **Pharmaceutical Botany.**
Two hours.....Miss Spier.

10. **Taxonomy: Method.**
A short course in April on request.

Honour Course in Biology

Prerequisite: Botany 1 and Zoology 1; *or* Botany 1M and Zoology 1M, together with Chemistry 1 and 1C, *or* Physics 1.
Second Year: Botany 2 and 3 (with laboratory work); Zoology 2; Physics 1, *or* Chemistry 1 and 1C.
Third Year: Botany 4 and 6; Zoology 3 and 6.
Fourth Year: Botany 7 and 8; Zoology 4 and 5.

Honour students must acquire a reading knowledge of scientific French and German. For Genetics and Physiology an elementary knowledge of statistical methods is advised.

Graduate Courses

See page 471.

DEPARTMENT OF CHEMISTRY

DIRECTOR AND PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:— ————————.

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT.

PROFESSOR:—N. N. EVANS.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

ASSISTANT PROFESSOR:—C. F. H. ALLEN.

LECTURER:—E. W. R. STEACIE.

DEMONSTRATORS:—
W. E. BARKER.
K. S. BUXTON.
H. N. CAMPBELL.
D. B. COOPER.
G. B. GRAHAM.
R. K. HOLCOMB.
D. D. MACKAY.
A. L. PEIKER.
A. F. PRICE.
W. R. SAWYER.
M. G. STURROCK.

LECTURE ASSISTANT:—A. E. CANTON.

(Unless otherwise arranged, all lectures and laboratory courses are given in the Chemistry Building.)

1. General Chemistry.

1. Lectures, Mon., Wed., Fri.

Section A.—Professor Hatcher at 12.

Section B—Professor Evans at 2.

Text-books:—Newell's College Chemistry; Macpherson and Henderson, General Chemistry.

1C.—Gen. Chem. Laboratory, Tu. and Th., 2-4.

(Wed. and Fri., 3-5 by arrangement.)

Dr. Steacie and Demonstrators.

Text:—Laboratory Exercises in General Chemistry, Evans, Hatcher and Steacie.

NOTE.—1 and 1C must be taken concurrently.

2. **Organic Chemistry** (No 56 Fac. App. Sci.).

First term; Tu., Th., Sat., at 12.
Second term; Tu. and Th., at 12.
Professor Hatcher.
Laboratory, six hours, second term.
Wed. and Fri., 2-5.
(Tu., 2-5, and Wed., 9-12, by arrangement.)
Professor Hatcher and Demonstrators.

Text-book:—Clarke, Introduction to the Study of Organic Chemistry.

3. **Analytical Chemistry.**

(a) Qualitative Analysis.

First term; six hours laboratory.

Professor Evans and Demonstrators.

Students who can do so, are recommended to take this course with the students in Applied Science during the month of September, instead of the regular term course.

Text-books:—W. A. Noyes, Qualitative Analysis; N. N. Evans, Notes on the Theory of Qualitative Analysis.

Quantitative Analysis.

(b1) First term, one hour, nine hours laboratory second term, twelve hours laboratory.

(b2) Second term, one hour; twelve hours laboratory.

Professor Johnson and Demonstrators.

4. **Elementary Physical Chemistry** (No. 58 Fac. App. Sci.).

Mon., Fri., at 12.....Professor Maass and Dr. Steacie.

Text-book:—Taylor, Theoretical and Physical Chemistry.

*5. **Organic Chemistry (Advanced)** (Nos. 64 and 65 Fac. App. Sci.).

First term, Wed., Fri., at 10; Second term, three hours.

Twelve hours laboratory.

Professor Allen and Demonstrators.

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* Courses for Graduates and Honour Students.

*6. **Inorganic Chemistry (Advanced)** (No. 72 Fac. App. Sci.).

Tu., Th., at 11.....Professor Johnson.

Text-book:—Caven and Lander, Systematic Inorganic Chemistry.

*7. **Physical Chemistry (Advanced)** (No. 66 Fac. App. Sci.).

Wed., Fri., at 9, and Thur at 10.....Professor Maass.

Text-book:—Nernst, Theoretical Chemistry.

*7A. **Physical and Colloid Chemistry Laboratory** (No. 66A Fac. App. Sci.).

Tues., 10–1, 2–5.

Professor Maass, Dr. Steacie and Demonstrators.

Text-book:—Findlay's Practical Physical Chemistry.

*8. **Quantitative Analysis (Advanced)** (Nos. 67 Fac. App. Sci.).

First term, one hour; twelve hours laboratory.

Professor Johnson and Demonstrators.

9. **Historical Chemistry** (No. 74 Fac. App. Sci.).

Second term; one hour.....Professor Hatcher.

Text-book:—Venable, 1922 ed., History of Chemistry.

11. **Electro-Chemistry** (No. 70 Fac. App. Sci.).

First term; Mon., at 9, Fri., at 12.

Professor Maass and Dr. Steacie.

Text-book:—Creighton and Fink, Electro Chemistry.

13. **Industrial Inorganic Chemistry** (No. 68 Fac. App. Sci.).

First term; Wed., Fri., at 11. Prerequisite Chem. 1 and 2.

Professor Hibbert.

14. **Industrial Organic Chemistry** (No. 69 Fac. App. Sci.).

Second term; Wed., Fri., at 11. Prerequisite Chem. 1 and 2.

Professor Hibbert and Associated Experts.

*15. **Colloid Chemistry** (No. 75 Fac. App. Sci.).

Mon., Fri., at 12.....Professor Johnson.

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* Courses for Graduates and Honour Students.

Honour Courses in Chemistry

Each student must have his course approved by the Department of Chemistry and the Dean of the Faculty at the beginning of each session.

B.A. Honour Course

This course begins with the Third Year.

Prerequisites:—At least second class standing in Chemistry 1 and 1C; Physics 1, Mathematics 1.

Third Year: Chemistry 2, 3, 4; Physics 2; German 1 or 3 (if already taken, Chemistry 11).

Fourth Year: Chemistry 5, 6, 7, 7a, 9 (optional); Mathematics 3; Physics 3a.

or

Chemistry 6, 7, 7a, 8, 9 (optional); Mathematics 3; Physics 3a.

B.Sc. Honour Course

This course begins with the Second Year.

Prerequisites: At least second class standing in Chemistry 1 and 1C; Mathematics 1 and Physics 1 *or* 2.

Second Year: Chemistry 3a, 3b1, 4; German 1 *or* 3; Mathematics 3; Physics 3a.

Third Year: Chemistry 2, 6, 7, 7a, 8, 9 (optional).

Fourth Year: Chemistry 5, 11, 13, 14, 15, and research.

The above courses may be altered with the consent of the Department of Chemistry and the approval of the Dean of the Faculty.

Honour Course in Chemistry and Biology

Prerequisites: French 15; German 1 *or* 3; Physics 1.

Second Year: Chemistry 1 and 1C; Botany 1; Zoology 1; French 2 and German 4.

Third Year: Either Physics 2 *or* French 4 *or* German 7 and Chemistry 2 (first term only), 3 (a); Zoology 2; Botany 2 *or* 6 and 8.

Fourth Year: A full course in Physics *or* Biology *or* advanced Chemistry and Chemistry 3 (b), 15; Zoology 4; Botany 4.

DEPARTMENT OF CLASSICS

PROFESSOR:—W. D. WOODHEAD.

PROFESSOR OF GREEK:—CARLETON W. STANLEY.

PROFESSOR OF CLASSICAL PHILOLOGY:—CLIVE H. CARRUTHERS.

ASSOCIATE PROFESSOR OF CLASSICS:—ALEXANDER M. THOMPSON.

LECTURER IN CLASSICS:—PAUL F. MCCULLAGH.

SESSIONAL LECTURER AND TUTOR (ROYAL VICTORIA COLLEGE):—
ELIZABETH A. SEFEROVITCH.

Greek

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Kiepert's Atlas Antiquus (Williams and Norgate); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

1. Beginners' Greek.

Tu., Th., Sat., at 10.....Mr. McCullagh.

Text-books:—Colson's Greek Reader (Macmillan); White, First Greek Book (Ginn & Co.).

2. Greek. First and Second Years.

Mon., Wed., Fri., at 11.....Mr. McCullagh.

Lucian, Extracts, Bond and Walpole (Macmillan); Lysias, Eratosthenes (Lysias, Orations xvi, Shuckburgh, Macmillan); Homer, Iliad xviii (James, Macmillan); Odyssey vi, Translation at sight.

4. Greek. Second Year.

Tu., Th., Sat., at 11.....Professor Thompson.

Plato, Apology (Adam, Cambridge University Press); Homer, Odyssey IX (Edwards, Cambridge University Press); Euripides, Alcestis (Blakeney, Bell's Illustrated Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).

5. Greek. Third and Fourth Years.

Three hours. (Given in 1931-32.)

Thucydides I (Marchant, Macmillan); Demosthenes, On the Peace, Philippic II, Chersonese, Philippic III (Sandys, Macmillan); Euripides, Bacchæ (Tyrrell, Macmillan); Translation at sight (Fowler, Sportella).

6. **Greek.** Third and Fourth Years. Prerequisite: 2 or 4.

Tu., Th., Sat., at 12.....Professor Stanley

Herodotus, Selections (Barbour, Ginn and Co.); Thucydides II (Marchant, Macmillan); Aristophanes, Birds (Merry, Clarendon Press); Translation at sight (Fowler, Sportella).

Honour Course in Greek

This will consist of 2 *or* 4, and 5, and the following:—

11. **Greek.** Second Year.

Tu., Th., Sat., at 9.....Professor Woodhead.

Homer, Iliad XXII and XXIV (Edwards, Cambridge University Press); Aeschylus, Prometheus Vinctus (Sikes and Willson, Macmillan); Lucian, Menippus (Mackie, Cambridge University Press); Greek Prose Composition and Sight Translation.

12. **Greek.** Third and Fourth Years.

Three hours. (Given in 1931-32.)

Plato, Republic I (Warren, Republic I-V, Macmillan); Aristophanes, Knights (Merry, Clarendon Press); Sophocles, Œdipus Rex (Cambridge University Press, 6/-); Translation at sight; Greek Prose Composition.

13. **Greek.** Third and Fourth Years.

Tu., Th., Sat., at 10.....Professor Carruthers.

Plato, Protagoras (Adam, Cambridge University Press); Sophocles, Antigone (Jebb); Theocritus (Bucolici Graeci, Oxford Classical Texts); Greek Prose Composition and Translation at sight.

Latin

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:— New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent).

The following book is also recommended: Kiepert, Atlas Antiquus (Williams and Norgate).

1. **Latin.** First Year.

Mon., Wed., Fri., at 10.

Petrie, Latin Reader, with Introduction to Roman History (Oxford, Clarendon Press); Latin Prose Composition (Marchant and Watson, Bell & Sons Ltd.); Translation at sight.

1A. **Latin.** First Year (for more advanced students).

Mon., Wed., Fri., at 10.....Professor Woodhead.

Cicero, Pro Lege Manilia (King, Clarendon Press); Pliny, Selected Letters (Westcott, Allyn and Bacon); Catullus, Selected Poems (Macmillan, Clarendon Press); Horace, Select Odes (Jackson, Clarendon Press); Latin Prose Composition (Marchant and Watson, Bell & Sons); Translation at sight.

2. **Latin.** Second Year.

Tu., Th., Sat., at 12.....Professor Stanley.

Selections from Pliny's Letters (Westcott, Allyn and Bacon); Horace, Odes I (Page, Macmillan); Virgil, Aeneid IV (Stephenson, Macmillan's Elementary Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Clarendon Press).

3. **Latin.** Third and Fourth Years.

Three hours. (Given in 1931-32.)

Cicero, Selected Letters (Abbot, Ginn & Co.); Virgil, Eclogues (Papillon and Haigh, Clarendon Press); Plautus, Captivi (Lindsay, Clarendon Press); Translation at sight (Pope and Bradshaw, Longmans).

4. **Latin.**

Mon., Wed., Fri., at 12.....Professor Thompson.

Sallust, Catiline (Summers, Cambridge University Press); Horace, Epistles (A. S. Wilkins, Macmillan); Translation at sight (Pope and Bradshaw, Longmans).

5. **Latin.**

At the beginning of the second term, if not before, an advanced class will be formed to prepare for Second and Third Year Scholarships. This class will be open to qualified students of the first two years.

Honour Course in Latin

This will consist of 2 and 3 and the following:—

11. Latin. Second Year.

Mon., Wed., Fri., at 9.....Mr. McCullagh.

Cicero, Pro Archia (Nall, Macmillan); Livy, XXII (Pyper, Clarendon Press); Catullus (Simpson, Macmillan); Lectures on Roman Literature; The Writers of Rome (J. Wight Duff, Oxford Clarendon Press); Latin Prose Composition.

12. Latin. Third and Fourth Years.

Three hours. (Given in 1931-32.)

Juvenal, Selections (Duff, Cambridge University Press); Seneca, Select Letters (Summers, Macmillan).

13. Latin. Third and Fourth Years.

Mon., Wed., Fri., at 9.....Professor Woodhead.

Tacitus, Annals 1–2 (Furneaux, Annals I–IV, School Edition, Clarendon Press); Virgil, Georgics I, II, IV (Papillon and Haigh, Clarendon Press); Latin Prose Composition and Sight Translation.

Honour Course in Classics

Greek: 2 *or* 4, 6, 11, 13.

Latin: 2, 4, 11, 13.

Ancient History

Greek and Roman History and Institutions: a lecture and reading course open to students of the Second, Third and Fourth Years. May be taken as a half-course in the first or second term.

Mon., Wed., Fri., at 11.....The Staff in Classics.

Advanced Courses

The following Course is outlined by the Department of Classics for students entering with advanced standing in Greek and Latin:—

Year	Latin	Greek
1.	Cicero, Pro Lege Manilia.	Lysias, Eratosthenes.
	Pliny, Selected Letters.	Lucian, Selections.
	Catullus, Selected Poems.	Homer, Iliad XVIII, Odyssey VI.
	Horace, Selected Odes.	Greek Prose.
	Latin Prose.	Herodotus, II.
II.	Sallust, Catiline.	Plato, Apology, Crito, Ion.
	Livy, one book.	Euripides, Medea or Alcestis.
	Plautus, Captivi.	Aeschylus, Prometheus, or Sophocles, Antigone.
	Terence, Phormio.	
	Vergil, Aeneid IV, VI, VIII.	Greek Prose.
	Latin Prose.	

Ancient History

III.	Cicero, Selected Letters.	Plato, Republic I-IV, X.
	Cæsar, Bellum Civile (one book).	Herodotus, Book VIII.
	Vergil, Bucolics, 1, 4, 6, 8, 10, Georgics 1, 4.	Sophocles, Oedipus Tyrannus.
		Demosthenes, Philippics, I-II.
	Roman Elegiac Poets, Selections.	Aristophanes, Clouds.
		Greek Prose.
	Latin Prose.	

Ancient Philosophy or Greek and Latin Historical Grammar

IV.	Tacitus, Annals I, IV, XV, 38-74.	Thucydides, Books VI, VII.
	Dialogus.	Aristotle, Politics (one book); Poetics.
	Lucretius, Book V.	Aeschylus, Agamemnon.
	Horace, Satires I. 4, 5, 6, 10; II. 4, 6.	Aristophanes, Birds (or Frogs or Peace).
	Epistles I. 6, 7, 19, 20; Ars Poetica.	Theocritus, Selections.
	Latin Prose.	Greek Prose.

Graduate Course in Classics

See page 481.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

PROFESSORS:—{STEPHEN LEACOCK. J. C. HEMMEON.

ASSOCIATE PROFESSOT:—J. P. DAY.

ASSISTANT PROFESSORS:—{JOHN C. FARTHING. JOHN CULLITON.

SESSIONAL LECTURER:—EUGENE FORSEY.

GRADUATE FELLOWS:— 1929-30. {H. B. LANDE. L. C. CARROLL. IDA GREAVES. ANDREW HAMILTON. KATHLEEN BEST.

1. **Elements of Political Economy (General Economics).** Second Year. This course is open to Arts students.
   Mon., Wed., Fri., at 11.
   Professors Hemmeon and Culliton and Mr. Forsey.

2. **Elements of Political Economy (Social Economics).** This course is open to Theological students proceeding to a degree in Arts, to students in the School for Social Workers, to partial students, and, by permission, to General students.
   Mon., Wed., Fri., at 11.
   Professors Hemmeon and Culliton and Mr. Forsey.

3. **Elements of Political Science.** Second Year.
   Mon., Wed., Fri., at 12.
   Professor Hemmeon and Mr. Forsey.

4. **History of Economic and Political Theory.** Third Year.
   First term; Mon., Wed., Fri., at 2.....Professor Leacock.

5. **Economic Aspects of the British Empire.** Third Year.
   Second term; Mon., Wed., Fri., at 2.....Professor Leacock.

6. **Labour Problems.** Third Year.
   First term; Tu., Th., Sat., at 12.....Professor Hemmeon.

7. **Money and Banking.** Third Year.
Second term; Mon., Wed., Fri., at 10.....Professor Day.

8. **Canada: Industrial and Economic Problems.** Third Year.
First term; Tu., Th., Sat., at 11.....Professor Culliton.

9. **The Government of Canada.** Third Year.
Second term; Mon., Wed., Fri., at 3.....Mr. Forsey.

10. **Contemporary Economic Theory.** Fourth Year.
First term; Tu., Th., Sat., at 11.....Professor Hemmeon.

11. **Contemporary Political Theory.** Fourth Year.
Second term; Mon., Wed., Fri., at 3.....Professor Leacock.

12. **International Trade and Trade Policy.** Fourth Year.
First term; Mon., Wed., Fri., at 10.....Professor Day.

13. **Public Finance.** Fourth Year.
Second term; Tu., Th., Sat., at 12.....Professor Hemmeon.

14. **Transportation.** Fourth Year and Graduate Students.
Second term; Mon., Wed., Fri., at 9.....Professor Culliton.

15. **Social and Industrial Legislation.** Fourth Year and Graduate Students.
First term; in alternate years. (Given in 1931-32.)
Mon., Wed., Fri., at 12.....Professor Farthing.

16. **Great Britain: Economic and Fiscal Problems.** Fourth Year and Graduate Students.
Second term; in alternate years. (Given in 1931-32.)
Mon., Wed., Fri., at 12.....Professor Day.

17. **Economic Factors in the Evolution of Society (till 1800).** Fourth Year and Graduate Students.
First term; in alternate years. (Not given in 1930-31.)
Mon., Wed., Fri., at 12.....Professor Farthing.

18. **Economic Factors in the Evolution of Society (after 1800).** Fourth Year and Graduate Students.
Second term; in alternate years. (Not given in 1930-31.)
Mon., Wed., Fri., at 12.....Professor Day.

34. Statistics. Fourth Year and Graduate Students.
First term; Mon., Wed., Fri., at 12.....Professor Gillson.

For the courses in Economics and Political Science given in the School of Commerce, see Special Announcement.

Honour Courses

Students taking the full Honour course in Economics and Political Science take in their Second Year courses 1 and 3, together with three other courses approved by the Department; in their Third Year the courses indicated above, together with one approved course from another department, and in their Fourth Year the courses indicated above, together with one approved half course from another department.

Students taking half an Honour course in another department (see page 95) may be granted honours in Economics (without Political Science) by taking courses 1, 3, 6, 7, 12, 14 or 34, and either 8 and 9 or 10 and 11; or they may be granted honours in Political Science (without Economics) by taking courses 1, 3, 4, 5, 13, 34, and either 8 and 9 or 10 and 11.

Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

Graduate Courses

See page 484.

DEPARTMENT OF EDUCATION

Professors:—F. Clarke. Sinclair Laird.

At present two courses in Education are offered, the first being taken normally in the Third Year and the second in the Fourth Year. Graduate students may take the two courses simultaneously in one year. The two courses as taken by graduates can now be counted as part of the requirement for an M.A. degree in Education. For particulars of requirements for this degree see the announcement of the Faculty of Graduate Studies.

Course 1 is a general study of the Principles of Education amplified and illustrated by the study of certain selected periods of the History of Education and certain selected texts from the classics of Education. The course will be found suitable as a general university study for students who do not intend to become teachers, as well as for those who wish to qualify by taking the High School Diploma.

Course 2 is more technical and is designed to provide training in the fundamentals of teaching method and school organization. It presupposes some knowledge of school routine and those who pursue it will be expected to relate its content to the teaching practice which is part of the requirement for the High School Diploma.

An outline of each course is given below:—

I. **General Principles of Education.** Third Year.

(a) The Educative Process; Educational Ends; Social Implications of Education; the School; Forms of School; School Systems; Modern Trends in Education.

(b) History of Education; Greek Education; the Renaissance; Modern Education from Rousseau; studies of (i) Plato's "Republic," (ii) Milton's "Tractate of Education," (iii) Rousseau's "Emile," (iv) Spencer's "Education."

Mon., Wed., Fri., at 4.

II. **Method and School Organization.** Fourth Year.

(a) Theory of Instruction; Principles of Method; Construction and Adjustment of Curricula; Types of Teaching Procedure.

(b) Methods of Teaching School Subjects.

(c) School Organization and Administration, including a survey of the School Law and Regulations of the Province of Quebec.

(d) Control and Discipline.

Tu., Thurs., at 4. Sat. at 12.

Courses 1 and 2 are required for the High School Diploma of the Province of Quebec, together with (a) fifty half-days of practice teaching and criticism lessons under expert supervision; and (b) special courses in methods of teaching French, music and drawing.

Seminar for Graduate Students.

A weekly seminar is held (hour to be arranged) for graduate students. In 1930-31 this seminar will concern itself with some out-

standing problems in the work and organization of the Protestant school system of the Province of Quebec.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical and mental defects that would seriously interfere with his usefulness as a teacher, (d) be a graduate of some Canadian or other British University, with degree courses as follows:—

(a) Academic.

First Year

Latin; English; Mathematics; French; History, *or* **a Science subject,** *or* **Greek.**

Second Year

Latin; English; Mathematics; French *or* **History; a Science subject** *or* **Greek.**

It is provided, however, that a candidate may omit in the Second Year any three of these subjects, except English, in which he has taken at least 60% in the First Year.

The Regulations governing the award of the High School Diploma require that candidates shall secure the approval of the Department of Protestant Education for the first two years of the B.A. Course before entering upon Course 1 in Education in the Third Year.

Failure to secure such approval may involve refusal by the Department to recognize for the purposes of the Diploma the work done in both the Courses 1 and 2.

After the completion of the Second Year, candidates should apply to the Registrar of the University for a detailed certified record of the work they have done. This record should then be submitted to the Education Department at Quebec for approval as qualifying the candidate to proceed to Courses 1 and 2 in Education as part of the requirement for the High School Diploma.

Special High School Certificates qualifying to teach special subjects in which honour courses have been taken in the University may be issued by the Central Board of Examiners, but they shall not be

valid for the headship of high schools unless endorsed for this purpose by the Director of Protestant Education, on the recommendation of the Central Board.

(b) Professional.

Candidates for High School Diplomas must also take at least two full University courses in the Theory and Practice of Education; all in accordance with a syllabus of studies submitted by the University authorities and approved by the Protestant Committee of the Department of Education.

Graduates in Arts, with the academic standing in the First and Second Years prescribed above, may also qualify for High School Diplomas by taking a year of post graduate studies in the University, with the major part of the candidate's work taken in the Department of Education; all in accordance with the syllabus of studies approved by the Protestant Committee.

In the meantime, however, the following will be accepted as meeting the professional requirements:—

(1) The successful completion of courses 1 and 2 in the Department of Education, during the last two years of their undergraduate course, Course 1 in the Third Year and Course 2 in the Fourth.

(2) Successful completion of special courses in methods of teaching French, music and drawing. These courses are held in the Montreal High School on Tuesday afternoons throughout the session. Fee, $16.00, payable to the Bursar, McGill University.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into two parts. The first part is taken in September preceding the Fourth Year. Education Course 1 is a prerequisite. The second part of the course in Practice Teaching is taken in May and June after the Fourth Year examinations.

ELEMENTARY, INTERMEDIATE AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

French. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

Kindergarten Assistants. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This diploma is accepted for entrance to the Kindergarten class at Macdonald College.

Physical Education. A two-years' course leading to a diploma for Teachers in Physical Education recognized by the Provincial Department of Education. (This course is given under the Department of Physical Education.)

DEPARTMENT OF ENGLISH

PROFESSOR:—CYRUS MACMILLAN.

ASSOCIATE PROFESSORS:— GEORGE W. LATHAM. HAROLD G. FILES.

ASSISTANT PROFESSOR:—A. S. NOAD.

LECTURER:—MARY MACKENZIE.

LECTURER AND DIRECTOR IN PLAY PRODUCTION:—LEONA GRAY.

ASSISTANTS:— A. R. McBAIN. ESTHER ENGLAND. FREDA MacGACHEN. NORA SULLIVAN. MARJORIE MacLAGGAN. ———. ———. ———.

1. English Composition.

Sat., at 12.....Professor Noad, Miss Mackenzie and Assistants. Professor Noad will have the general direction of this course. Section and weekly conference hours to be arranged.

2. English Literature.

General Course from Anglo-Saxon times to the present day.
Tu., Th., and, at the pleasure of the instructor, Sat. at 12.
Professor Macmillan and Assistants.

Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.

1A. English Composition.

One hour a week in the first term of the Second Year.
All students who fail in English 1 are required to take this course.
Professor Noad and Assistants.

3. English Composition.

Half course. An advanced course open to a limited number of students who desire more practice in writing after having completed English 1. Application for permission to take this course must be made at the beginning of the session.
Hours to be arranged.....Professor Files.

4. English Literature in the Nineteenth Century.

Mon., Wed., Fri., at 3.....Professor Latham.

5. Spenser and Milton.

Second term; Tu., Th., Sat., at 12.....Professor Latham.
(Not given in 1931-32.)

6. Shakespeare (Six Plays).

Mon., Wed., Fri., at 10.....Professor Macmillan.
May be taken in two successive years.

7. English Literature in the Eighteenth Century.

Mon., Wed., Fri., at 12.....Professor Files.
(Not given in 1931-32.)

8. Argumentation, Debating, and the Forms of Public Address.

Tu., 3 to 5; conference hours to be arranged.....
Professors Latham and Noad and Assistants.

The attendance in this course is limited to 40 men. (Not given in 1930-31.)

9. **English Poetry in the Nineteenth Century.**

Mon., Wed., Fri., at 11.....
Professors Macmillan and Noad and Assistants.
(Not given in 1931-32.)

10. **The English Novel, from Richardson to the Present Time.**

Tu., Th., Sat., at 11.....Professor Files.

11. **English Literature, exclusive of Drama, from Tottel's Miscellany to the Restoration.**

Second term; Mon., Wed. and Friday, at 12.....Professor Noad.
(Not given in 1930-31.)

12. **Anglo-Saxon; English Literature up to the Norman Conquest.**
Mon., Wed., Fri., at 2.....Professor Latham

13. **The Technique of the Drama.**

Theory and practice. Play structure; characterization; dialogue; an examination of specimen plays of various periods. Lectures, conferences and practical work in play production on the stage in the Moyse Hall, designing, lighting, scenic efforts, etc.
Tu. and Th. at 10 a.m.; laboratory periods to be arranged.
Miss Gray, Professors Macmillan and Files and Assistants.
Courses 3, 6, 7 and 19 are recommended to students taking this course.

14. **Chaucer.**

First term; Tu., Th., Sat., at 12.....Professor Latham.
(Not given in 1931-32.)

15. **American and Canadian Literature.**

Second term; Mon., Wed., Fri., at 11.....
Professors Macmillan and Latham.
(Not given in 1930-31.)

16. **Comparative Literature.**

The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.
Tu., Th., Sat., at 9.....Professor Noad.
(Not given in 1931-32.)

17. **Comparative Literature.**

The literary influence of the Continent upon England since 1600; a study of typical forms.
Tu., Th., Sat., at 9.....Professor Noad.
(Not given in 1930-31.)

18. **The English Bible.**

First term; Tu., Th., Sat., at 9.....
Professor ———— and Assistants.
(Not given in 1930-31.)

19. **English Literature from the Restoration to the Death of Dryden.**

First term; Mon., Wed., Fri., at 12.....Professor Files.
(Given in 1931-32.)

20. **Early English: English Literature from 1200 to 1450.**

Tu., Th., Sat., at 12..... .....Professor Latham.
(Given in 1931-32.)
Open only to students who have taken Course 12, or its equivalent.

21. **Political Satire Since the Renaissance.**

First term; Mon., Wed., Fri., at 11.....Professor Macmillan.
(Given in 1931-32.)

22. **An Advanced Course in the Technique of the Drama.** Play-production; individual research and practical work. Special lectures will be given by guest lecturers. Prerequisite: English 13 or its equivalent.

The idea of the course is to provide for students who, in English 13 or its equivalent, have shown special aptitude for the work, an opportunity to gain further experience. Members of the class will work as leaders of student groups in production, make-up, designing, scene-making, costuming, etc. The attendance in this course is limited to twelve. Application for admission must be made at the beginning of the session.

Miss Leona Gray, and other members of the Department.

Second Year Courses

Courses 4, 6, 7, 15 are open to Second Year students.

Honour Course

Second Year:—Two courses selected from 3, 4, 6, 7, 8, 15, 18, 19.

Third Year:—Four courses.

Fourth Year:—Four courses not taken in the Third Year; Course 11 in the Graduate School may be taken, with the permission of the Department.

Courses 5, 6, 12, 14 and 20 are compulsory for Honours.

English Requirements for the Honour Courses in English and Latin, English and French, and English and German.

Second Year:—Consult the Head of the Department.

Third Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 22, not previously taken.

Fourth Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 20, not previously taken. (Course 12 and one course selected from 5, 14, and 22 are compulsory.)

English Requirements for the Honour Course in English and Other Subjects

Second Year:—Consult the Head of the Department.

Third Year:—Courses aggregating six hours, chosen from 4 to 22, not previously taken.

Fourth Year:—Any courses aggregating six hours, chosen from 4 to 21, not previously taken.

One course selected from 5, 12, 14 and 20 is compulsory in either the Third or the Fourth Year.

Graduate Courses

See page 487.

DEPARTMENT OF GEOLOGY AND MINERALOGY

PROFESSOR:—JOHN J. O'NEILL.

PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.

PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

ASSISTANT PROFESSORS:—{ E. GILL. / **F. F. OSBORNE.**

LEROY FELLOW IN GEOLOGY:—ERIC R. WYKES.

1. **General Geology** (App. Sci. 141). A general survey of the whole field of geology.

   (a) *Mineralogy and Petrology.*—The common rock-forming and economic minerals and more important rocks.

   (b) *Dynamical and Structural Geology.*—The processes of vulcanism; volcanoes, geysers, etc.; disintegration of the rocks to form soils; denudation of the earth's surface under atmospheric agencies, rain, running water, glaciers, etc., and the deposition of the materials as sediments; mountain building, earthquakes, folding, faulting, metamorphism, etc.

   (c) *Historical Geology,* including a description of the fauna and flora of the earth during the successive periods of its history, as well as the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides.

In addition to the lectures there will be excursions on Saturday mornings for five or six weeks after the term opens; students attending these will be excused from any classes which conflict with the excursions. One hour laboratory.

Mon., Wed., and Fri., at 9.....Professor Clark.

Text-book:—Pirsson and Schuchert, "Text-book of Geology," 2 vols.

2. **Physiography and Natural Resources of Canada.**

The first part of the course will deal with the development and significance of land forms. This will be followed by a survey of the whole of Canada with descriptions and interpretations of the main topographic features. The relationships between geology, topography and the distribution of natural resources will be brought out, as well

as the influence of the physiography on the economic development of the country. The course will be illustrated by lantern slides, maps and observations in the field.

Tu., at 12 and one laboratory period to be arranged to suit the students.....Professor Gill.

3. **Stratigraphy** (App. Sci. 151).

This course consists of two parts. (1) Sedimentation; a consideration of the source and origin of sedimentary rocks, the significance of their structure and textures, and the structural relationships of strata; (2) Correlation; the means by which it is achieved, index fossils, principle of superposition, stratigraphic continuity, etc.; also the subjects of stratigraphic nomenclature and paleogeography. Brief reference will be made to economic products of sedimentary rocks.

First term; Mon., Wed., at 12; one hour laboratory, Fri., at 12, and two full days field work during October.

Prerequisite:—1 .....Professor Clark.

4. **Geology of Canada** (App. Sci. 149).

A general description of the geology and mineral resources of the Dominion.

First term; Wed., at 11.

Prerequisite:—1 .....Professor O'Neill.

5. **Mineralogy** (App. Sci. 142).

The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification.

Tu. and Th., at 9.....Professor Graham.

6. **Determinative Mineralogy** (App. Sci. 143).

Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.

Two laboratory periods during the first term; Th., Fri., at 2 to 5.

Professor Graham.

7. **Practical and Field Geology** (App. Sci. 147).

Study of the structure and metamorphism of the earth's crust with reference to folding, faulting, fissuring, etc. and to igneous intrusion in their bearing upon the occurrence of valuable mineral deposits; discussion of the methods employed in carrying out geological surveys for various purposes and in the construction and interpretation of geological maps and sections.

Lectures, laboratory, and field mapping.

First term; Th., at 11, and Sat. mornings, 9-12.

Professor O'Neil and ————————.

Reference:—"Structural and Field Geology" by Jas. Geikie, D. Van Nostrand & Co., N.Y., 1905; "Handbook for Field Geologists" by Hayes; "Field Geology" by F. H. Lahee, McGraw Hill Book Co., N.Y., 2nd edition, 1923.

8. **Ore Deposits** (App. Sci. 148).

The nature, mode of occurrence and classification of ore deposits; typical occurrences are described and their origin discussed. The more important non-metallic minerals, *e.g.*, fuels, clays, buildings stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc.

Second term; Tu. 10 to 12, Wed. and Th. at 11.

Prerequisite:—147. .....Professor O'Neill

References:—"Mineral Deposits," Lindgren; "Economic Aspects of Geology," Leith; "Geology of Petroleum," Emmons; "Ore Deposits of the U.S. and Canada," Kemp; Publications of the Geological Survey of U.S. and of Canada.

9. **Optical Mineralogy and Crystallography** (App. Sci. 151).

Methods of determining the various optical properties of minerals. Optical chapters in Miers' "Mineralogy" and Dana's "Text-Book of Mineralogy"; Tutton's "Crystallography and Practical Crystal Measurement."

One hour and three hours laboratory period; first or second term. Hours to be arranged.....Professor Graham.

10. **Petrography** (App. Sci. 146).

The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

In addition to the lectures, one afternoon a week will be devoted to practical work in the petrographical laboratory.

First term; Tu., at 10; laboratory, first term, Fri. 10-1; second term, Sat., 10-1.....Professors Graham and Osborne.

12. Palæontology (App. Sci. 152).

The development of ideas concerning the origin of fossils. A brief survey of systematic palæontology, in which the fossils of the major biological groups will be treated in order. The economic importance of palæontology; the meeting place of biology and geology; the bearing of palæontology upon the doctrine of evolution.

Second term; Mon., Wed., at 12; laboratory, Wed., 2-5.

Prerequisite:—1.....Professor Clark.

13. Geological Colloquium.

Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology.

One hour per week (to be arranged).

HONOUR COURSE

Second Year:—Geology 1, 5 and 6; Zoology 1; Botany 1; Chemistry 1 and 1C; English 4.

Third Year:—Geology 2, 3, 4, 9, 10; Chemistry 3.

Fourth Year:—Geology 7, 8, 12, 13; Botany 3 and Zoology 7.

GRADUATE COURSE

See page 493.

DEPARTMENT OF GERMANIC LANGUAGES

PROFESSOR:—H. WALTER.

ASSOCIATE PROFESSOR:—W. L. GRAFF.

LECTURER:—MISS B. MEYER.

1. German Language. (Beginners' B.A. Course.)

Tu., Th., Sat., at 9.....

Texts:—Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen und Erzählungen, Vol. I (Heath); Nichols, Easy German Reader (Holt.).

2. German Language.

Tu., Th., Sat., at 10.....Miss Meyer.

Texts:—Van der Smissen and Fraser, High School German Grammar (Copp, Clark Co.); Hauff, Die Karavane (Holt), Keller, Kleidermachen Leute (Heath); Fulda, Talisman (Holt); Collmann, Easy German Poetry (Ginn, Ed. 1913); Horning, German Composition (Copp, Clark Co.).

Private Readings:—

Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (Am. B. Co.).

3. German. (Beginners' B.Sc. Course.)

Tu., Th., Sat., at 10.....Professor Graff.

Texts:—Vos, Essentials of German (Holt); Guerber's Märchen und Erzählungen, Vol. I. (Heath); Meisnest, Introduction to Scientific German (Holt).

4. German Science Reading Course. First or Second Year.

A course in reading Science German is given for students who have matriculated in this language or have taken it in the First Year.

Mon., Wed., Fri., at 5.....Professor Graff.

Texts:—Greenfield's Technical and Scientific German (Heath); Ihrig's Word Formation and Syntax (Heath).

5. German Language. Second Year.

Section A; Mon., Wed., Fri., at 11.....
Professor Walter and Miss Meyer.

Texts:—Van der Smissen, German Grammar; Jagemann, Materials for German Prose Composition (Holt); Storm, Immense (Ginn); Porterfield, Modern German Stories (Heath); Schiller, Wilhelm Tell (Holt).

Private Readings:—

Riehl, Der Fluch der Schönheit (Heath); Mörike, Mozart auf der Reise mach Prag (Heath).

Section B; Mon., Wed., Fri., at 10.....
Professor Walter and Miss Meyer.

Texts:—Van der Smissen, German Grammar; Jagemann, Materials for German Prose Composition (Holt); Diamond and Schomaker, Lust und Leid (Holt); Freytag, Die Journalisten (Ginn); Schiller, Maria Stuart.

7. German Language. Second Year. Honour Course.

Mon., Wed., Fri., at 12.....Professor Graff.

Texts:—Jagemann, Materials for German Prose Composition (Holt); Goethe, Egmont (Holt); Schiller, Piccolomini; Meyer, Jürg Jenatsch (Heath); Nichols, Modern German Prose (Holt).

Private Readings:—

Heine, Harzreise (Ginn); Goethe, Sesenheim (Holt).

No student who in his First Year took German 1 can take course 7 unless he has completed the summer work as given under course 1.

Students may begin Honours in German in their Third Year, provided they have obtained a First Class in either 5A or 5B.

Honour students in German are strongly recommended to take, in their Second or Third Year, as one of their general courses, course 1 of the Department of Philosophy (Logic and Introduction to Philosophy).

N.B.—In order to be admitted to the following courses of the Third and Fourth Years a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. German Literature (Nineteenth Century).

Mon., Wed., Fri., at 9.....Professor Walter.

Texts:—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Heine, Prose (Oxford Univ. Press); Heine, Verse; Hauptmann, Die versunkene Glocke; Keller, Sieben Legenden; Stroebe and Whitney, Geschichte des deutschen Literatur (Holt); Whitney and Stroebe, Exercises in German Syntax and Composition (Holt Co.). Selection from German philosophers.

9. German Literature (Eighteenth Century).

Mon., Wed., Fri., at 9. (Given in 1931-32.)....Professor Walter.

Texts:—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie (Pitt Press); Schiller, Wallenstein; Lessing, Hamburgische Dramaturgie; Stroebe and Whitney, Geschichte der deutschen Literatur (Holt); Whitney and Stroebe, Exercises in German Syntax and Composition (Holt Co.); Selections from German philosophers.

HONOUR COURSES

10. Mediæval German Literature and Philology.

Mon., at 4.....Professor Graff.

Texts:—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi and Beer, Züruch); Behaghel, Die Deutsche Sprache (Freytag, Leipsig).

11. **Entwicklung der deutschen Lyrik**.....Professor Walter.
One hour.

12. **Geschichte des deutschen Trauerspiels**.....Professor Walter.
Two hours. (Given in 1931-32.)

13. **Composition.**
One hour.....Professor Walter.
Mutschmann, Passages for translation into German (Oxford Univ. Press).

14. **Gothic and Introduction to Germanic Philology.**
One hour.....Professor Latham.

The German language alone is used in class instruction in courses 5-13, and, in order to obtain honours, candidates must be able to speak German fluently.

GRADUATE COURSES

See page 497.

DEPARTMENT OF HISTORY

PROFESSORS:—{W. T. WAUGH. C. E. FRYER.

ASSOCIATE PROFESSOR:—E. R. ADAIR.

ASSISTANT PROFESSOR:—T. W. L. MACDERMOT.

ASSISTANTS:—{V. C. WANSBROUGH. ———.

COURSES FOR GENERAL STUDENTS

1. **General History of Europe, from the Break-up of the Roman Empire to 1914.** First Year.
Tu., Th., Sat., at 11.....Professors Waugh and MacDermot.

2. **General History of North and South America.** Second Year.
Mon., Wed., Fri., at 9.....Professor Adair.

3. **History of the British Empire.** Second Year.
Tu., Th., Sat., at 10.....Professor MacDermot.
With the consent of the Department, this course may be taken by Third-Year students.

4. **History of Canada.** Third Year.
Tu., Th., Sat., at 9.....Professor Fryer.
With the consent of the Department, this course may be taken by Fourth-Year students.

5. **British Industrial Democracy, 1784-1914.** Fourth Year.
Mon., Wed., Fri., at 9.....Professor Fryer.
With the consent of the Department, this course may be taken by Third-Year students.

6. **History of Europe, 1789-1914.** Fourth Year.
Tu., Th., Sat., at 10.....Professor Fryer.

COURSES SPECIALLY FOR HONOUR STUDENTS

Prerequisite:—History 1.

7. **Mediæval History and Institutions.** Second Year.
Tu., Th., Sat., at 10.....Professor Waugh.

8. **History of Modern Europe to 1789.** Third Year.
Mon., Wed., Fri., at 12.....Professor Adair.

9. **English Constitutional History.** Fourth Year.
Tu., Th., Sat., at 9.....Professor Waugh.

10. **History of Economic and Social Conditions, with special reference to England.** Fourth Year.
Three hours, at times to be arranged.....Professor Adair.

Special Subjects:—

Joan of Arc and her Times.
The Reign of Charles I.
William Pitt and the Conquest of Canada.
A selected period of the History of Canada since 1760.
Roman Law.
A Period or Aspect of Ancient History.

NOTE.—A choice of one of these special subjects for continuous study by Honour students during their Third and Fourth Years will be made in consultation with the Chairman of the Department.

Students taking Honours in History will take the following courses in 1930-31:—

Second Year: History 2 and 7.
Philosophy 4.
Approved courses in French *or* German *and* in Latin *or* German.

Third Year: History 4 and 8.
An approved course in Philosophy, Economics, Latin, French *or* German. One of the special subjects in History.

Fourth Year: History 6, 9 and 10.
Continuation of special subject begun in 1929-30.

Students taking Honours in History and another subject will take the following courses in History in 1930-31:—

History Courses:—

Second Year: History 2 and 7.

Third Year: History 4 and 8.

Fourth Year: History 9 and *either* 6 *or* 10.

NOTE.—In addition to the examination on the subjects taken up in the last year, Fourth Year Honour students will have a general examination paper on the history studied by them in their four years.

GRADUATE COURSE

See page 498.

DEPARTMENT OF MATHEMATICS

PROFESSORS and JOINT CHAIRMEN:— C. T. SULLIVAN. N. B. MACLEAN.

ASSOCIATE PROFESSORS:— A. H. S. GILLSON. W. L. G. WILLIAMS.

ASSISTANT PROFESSOR:—H. TATE.

LECTURERS:— DAVID HOWAT. T. H. MATTHEWS.

1. Mathematics. (For First Year students.)

Geometry and Trigonometry. Three hours, first term.

Algebra. Three hours, second term.

Five Sections: Messrs. Gillson (two sections), Howat (two sections), ———————— (one section).

An advanced section will be in charge of Professor Gillson.

Text-books:—Hall and Knight, Elementary Trigonometry; Carslaw, Plane Trigonometry; Hall and Stevens, School Geometry, Parts **I-VI; Hall's School Algebra, Parts I, II, III.**

1A. Solid Geometry and Trigonometry.

One hour, second term.....

This is a special class for students qualifying for entrance into Applied Science and for others interested.

1B. Practical Mathematics.

This is an elementary course giving simple methods of dealing with numerical data arising in Biology, Economics, Sociology and allied subjects, and including such topics as the use of graphical methods, tables, averages, approximations and elementary statistics.

One hour weekly (time to be arranged).....

First or Second class standing in course 1 is necessary for course **3 or 4.**

2. **Elementary Analysis.** (For Second Year students.)

This course is designed to meet the continuation requirements of students who have passed ordinary Mathematics 1, but whose standing does not permit them to take Mathematics 3 or 4.

Mon., Wed., Fri., at 10.....Mr. Matthews.

3. **Calculus.** (An elementary course for Second Year and other qualified students.)

Tu., Th., Sat., at 12.....

Text-book:—Murray, Differential and Integral Calculus.

4. **Algebra and Analytical Geometry.** (For Second Year and other qualified students.)

Mon., Wed., Fri., at 10.....Mr. Howat.

Text-book:—S. L. Loney, Co-ordinate Geometry.

A knowledge of courses 3 and 4 is a prerequisite for courses 6, 7, 8.

Ordinary students taking Mathematics as a continuation subject are advised as follows:—Mathematics 3, 4 may be taken in the same year or in different years in any order. After Mathematics 3, 4 have been passed, any of Mathematics 6, 7, 8 may be taken in any order.

5. **Spherical Trigonometry and Astronomy.** (For Second Year and other qualified students.)

Spherical Trigonometry; One hour, first term.....Mr. Howat.
Astronomy; Two hours, second term.....Professor Gillson.

Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

Spherical Trigonometry may be taken separately from Astronomy by students taking the double course in Arts and Applied Science.

This course can be combined with Physics 4 to form a three-hour course for the year.

6. **Analytical Geometry of Three Dimensions; Curve Tracing.**

(For Third Year and other qualified students.)

Three hours .....Mr. Howat.

Text-books:—C. Smith's Solid Geometry; R. T. J. Bell, Geometry of Three Dimensions.

7. **Infinitesimal Calculus and Differential Equations.** (For Third Year and other qualified students.)

Three hours .....Professor Gillson.

Text-books:—Lamb, Infinitesimal Calculus; Osgood, Advanced Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

8. **Theory of Equations and Higher Algebra.** (For Third Year and other qualified students.)

Three hours .....Professor Sullivan.

Text-books:—Burnside and Panton, Theory of Equations; Fine, College Algebra; Milne, Higher Algebra.

9. **Finite Differences and Theory of Probability, with applications.** (For Fourth Year and other qualified students.)

Three hours .....Professor Tate.

Course 8 is a prerequisite to course 9.

Text-books:—Spurgeon, Institute of Actuaries' Text-book; Borel, Probability; A. Fisher, Probabilities; Henry, Calculus and Probability.

10. **Introduction to the Theory of Functions of a Real Variable.** (For Fourth Year and other qualified students.)

Three hours .....Professor Williams.

Text-books:—Hardy, Course in Pure Mathematics (Camb. Univ. Press); de la Vallée Poussin, Cours d'Analyse Infinitésimale.

11. **Introduction to the Theory of Functions of a Complex Variable.** (For Fourth Year and other qualified students.)

Three hours .....Professor Sullivan.

Text-books:—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

12. **Modern Higher Algebra.** (For Fourth Year and other qualified students.)

Properties of polynomials; determinants and matrices; theory of forms.

Three hours .....Professor Sullivan.

Text-book:—Bôcher, Introduction to Modern Higher Algebra.

Each year courses 6, 7, 8, 10, 11 and either 9 or 12 will be given.

For COURSES IN COMMERCE open to students in Arts, see Announcement of the School of Commerce.

Honour Course in Mathematics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2; Mathematics 3 4, and either Mathematics 5 and Physics 4, or Mathematics 42 of Commerce.

Third Year:—Courses 6, 7, 8, and a fourth full course (in any subject) approved by the department.

Fourth Year:—Course 10 and at least two of courses 9, 11, 12, and a fourth full course (in any subject) approved by the department.

Honour Course in Mathematics and Physics

Prerequisite:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen.)

Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8.

Graduate Courses in Mathematics

See page 499.

DEPARTMENT OF ORIENTAL (Semitic) LANGUAGES

Professors:—C. A. Brodie Brockwell.
A. R. Gordon.
G. Abbott-Smith.

Lecturer:—Julius Berger.

1. **Hebrew Grammar and Syntax.**
   Mon., Wed., Fri., at 12.....Professor Brockwell.

2. **Hebrew Grammar and Syntax.**
   Wed., at 2.....Professor Brockwell.

3. **Arabic and Aramaic.**
   Mon., Wed., Fri., at 10.....Professor Brockwell.

4. Semitic Social Anthropology and Epigraphy.
Mon., Wed., Fri., at 11.....Professor Brockwell.

5. Hebrew Texts.
Mon., Wed., Fri., at 9.....Professor Gordon.

6. Outlines of Hebrew History to Herod the Great.
Tu., at 2.....Professor Gordon.

7. History of Jewish Thought.
Mon., Wed., Fri., at 12.....Mr. Berger.

8. Talmudic Texts.
Tu., Th., at 10.....Mr. Berger.

9. Literature of the Jewish Hellenists (Selected Greek Texts).
Mon., Wed., Fri., at 2.....Professor Abbott-Smith.

10. Grammar and Syntax of Jewish Hellenistic Texts.
Tu., at 12.....Professor Abbott-Smith.

Honour Course

Prerequisite:—Hebrew 1 or an equivalent.

Second Year:—Consult the Head of the Department.

Third Year:—3, 4, 5, 7 (or 9).

Fourth Year:—3, 4, 5, 8 and 6 (or 9).

Graduate Course

See page 506.

DEPARTMENT OF PHILOSOPHY

PROFESSORS:— { IRA A. MACKAY.
C. W. HENDEL *(Chairman)*.

ASSOCIATE PROFESSOR:—A. J. D. PORTEOUS.

The courses in Philosophy are of two types—General Courses and Advanced Courses.

The General Courses have several distinct ends in view. They are intended to awaken in students an interest in the ultimate questions of life and to give a discipline in reflective thinking. These courses will also interpret to them the subjects of art, literature and science in relation to each other and to philosophy, thus providing a comprehensive view of the field of human knowledge.

Such general courses are *Introduction and Logic, Moral Philosophy, Greek Philosophy,* and *History of Modern Philosophy.* These courses are available to students of every department of the College.

The advanced courses are devoted to study of fundamental problems either of philosophy proper or of other subjects having philosophical aspects, such as law, politics, the social sciences, and the natural sciences. These courses offer an opportunity for individual research both to scholars in philosophy and to advanced students of other departments who have the requisite training.

The advanced courses are *Modern Logic and Metaphysics, Kant and His Influence on Modern Philosophy, Political Philosophy,* and the *Seminars* on *Plato and Aristotle* and *Contemporary Philosophy.*

All courses have, as an essential part of their discipline, one hour a week of independent discussion of the reading, in small groups under the direction of the lecturer.

1. Introduction to Philosophy and Logic.

(a) A careful study of the essentials in Locke, Berkeley, Hume and Kant and their application to general philosophy.

(b) The elements of Logic, Deductive and Inductive. Exercises in Logic.

Tu., Th., Sat., at 10....Professors MacKay, Hendel and Porteous.

2. Moral Philosophy.

A study of moral character and of the various types of ethical principle recognized in Western culture. The first term will be devoted entirely to a consideration of the great classics of moral philosophy.

The latter part of the second term will be spent upon contemporary ethics developed in the light of the modern sciences of man and society. The reading for the whole course will comprise: *Selections* from Hobbes, Spinoza, Rousseau and Kant; J. Burnet; *Aristotle on Education;* Bishop Joseph Butler, *Fifteen Sermons Preached in the Rolls Chapel* (ed. Mathews, Bohn Lib. Bell); J. S. Mill, *Utilitarianism;* W. E. Hocking, *Human Nature and its Remaking,* (Yale University Press); W. Fite: *An Adventure in Moral Philosophy.*

Tu., Th., Sat., at 11 (two lectures and one discussion)...

Professor Hendel.

3. **Greek Philosophy.**

A treatment of the leading philosophies and schools of philosophy from Thales to Aristotle with a briefer survey of the post-Aristotelian schools down to 529 A.D. While the main emphasis will be laid on the development of thought, considerable attention will be directed to the literary, scientific, social and religious background of fifth and fourth century Greece. Plato and Aristotle will be studied in selected portions of their own writings with special discussion of the outstanding problems of their philosophies. J. Burnet's *Greek Philosophy, Part I., Thales to Plato,* will form the basis of reading for the first part of the course, supplemented by his *Early Greek Philosophy* (3rd edition, 1920). Scribner's *Selections* from Plato (R. Demos), and Aristotle (W. D. Ross), and Plato's *Republic* (preferably Davies and Vaughan's translation) are also prescribed. Recommended reading: A. E. Taylor, *Plato; The Man and his Work* (Methuen); *Plato* (Philosophies Ancient and Modern); W. D. Ross, *Aristotle* (Methuen).

One long essay will be required in each term.

Mon., Wed., Fri., at 12 (two lectures and one discussion)..

Professor Porteous.

4. **History of Modern Philosophy.** (This course is divided into two half courses, (a) and (b).)

A survey of the ideas and philosophies of the period from the Renaissance to the present. The Philosophers will be interpreted both as individuals and as representative men influenced by and contributing to the opinions and activities of their own times. The lectures aim to give comprehensive views of the state of thought in the Seventeenth, Eighteenth and Nineteenth Centuries, particularly as regards science and religion, and history, politics and the social conditions. The discussions in conference will be on the writings of the masters of modern

philosophy. *Selections* from Descartes, Spinoza, Leibniz, Locke, Hume, Kant, Hegel and Bergson.

(a) Modern Philosophy Before Kant.

(b) Kant and Subsequent Philosophy.

Tu., Th., Sat., at 12 (two lectures and one discussion)...
Professor Hendel.

5. Political Philosophy.

An enquiry into the origin and meaning of modern political ideas with especial attention to the ideas of law, freedom and political obligation. These conceptions will be studied in their application to both the national and the international community. There will be occasional lectures to present materials of research not available in books, notably on Jean Bodin, Grotius, Pufendorf, Montesquieu, the Encyclopedists and Rousseau. The reading and reports and discussions will be on the political writings of Hobbes, Locke, Rousseau, Kant, Hegel, T. H. Green, and certain contemporaries in various schools of thought in Europe and America.

Prerequisite: Philosophy 2 or 3 or 4.

Students of advanced standing and good record in economic and political science, or any other cognate subject, will be permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the lecturer.

Mon., Wed., at 4.....Professor Hendel.
Conference hour to be arranged.

6. Modern Logic and Metaphysics.

(This course is divided into two half courses which can be taken independently).

(a) Modern Logic.

Lectures will be devoted to the logic of induction and science and will comprise the following topics: the validity of inductive inference; analysis of scientific method; law and causation; probability. Thereafter there will be consideration of the more philosophical aspects of logic as treated by Bradley, Bosanquet, Russell, Cook Wilson, and Johnson, viz., the general character of judgment and inference, types of proposition, negation, class relation, fact and theory, the nature and criterion of truth. The following texts are prescribed: S. H. Mellone, *Introductory Text Book of Logic;* J. S. Mill, *System of Logic,* Book III; B. Bosanquet, *Essentials of Logic;* B. Russell, *Problems of Philosophy* (Home University Library); H. Poincare, *Science and Hypothesis.*

(b) Metaphysics.

A study of fundamental problems in the philosophy of Nature, theory of knowledge and metaphysics of the self. The course will deal with the general issues of rationalism and empiricism, realism and subjectivism, naturalism and idealism and such specific questions as the nature of space, time, event, substance, relation and cause; the problem of universals; the relation of mind to the body, to nature and to value. A. E. Taylor's *Elements of Metaphysics* and J. Laird's *A Study in Realism* are recommended for collateral reading, but discussion will centre upon the modern classical treatment from Descartes to Reid and Kant with frequent reference to the contemporary writings of James, Russell, Whitehead and others.

Prerequisite: Philosophy 1 and either 3 or 4.

Two lectures and one discussion a week throughout the year.

One long essay will be required in each term.

Mon., Wed., Fri., at 4.....Professor Porteous.

7. Kant and His Influence on Modern Philosophy.

A careful reading of *The Critique of Pure Reason* and of selections from *The Critique of Practical Reason* and *The Critique of Judgment.*

Two hours .....Professor MacKay.

8. Plato and Aristotle. (Not given in 1930-31.)

Seminar for advanced students. Selected dialogues of Plato and portions of Aristotle will be read and their problems discussed. Standard translations will be used, but reference will be made to textual and other questions of interpretation.

Selction for 1931-32:—Plato: *Phædo,* Republic (Bks. VI, VII), *Parmenides* (first part), *Theaetetus Timaeus* (portions); Aristotle: *Ethica Nicomachea* (Bks. I-IV, VI, VII, X).

Professor Porteous.

9. Seminar of Contemporary Philosophy.

Discussion of:—A. N. Whitehead, *The Concept of Nature* (pub. Cambridge Univ. Press), *Science and the Modern World, Process and Reality* (Macmillan); John Dewey, *Experience and Nature* (Open Court), *The Quest for Certainty.*

One meeting a week, two hours.....

Professors MacKay, Hendel and Porteous.

Honour Course

Second Year:—Philosophy 1 and Psychology 1.

Third Year:—Three general courses, 2, 3, and 4, and any one full course selected from the recommended list given below.

Fourth Year:—Three advanced courses, and any one full course selected from the following list:—

Psychology 2, 4, 5, 7, 8, 16, 17.

English 6, 7, 9, 10, 16, 17, 19.

History 1, 7.

Sociology 2, 5, 6, 7, 11.

Mathematics 3, 4, 5, 8, 10, 11, 12.

Botany 3.

Economics and Political Science 3, 4, 10 or 11.

For any combined Honour Course the requirements of Philosophy are five full courses, including Philosophy 1.

DEPARTMENT OF PHYSICS

Director:—A. S. Eve.

Professors:—H. T. Barnes. L. V. King. A. N. Shaw. D. A. Keys.

Associate Professors:—A. H. S. Gillson. H. E. Reilley. J. S. Foster.

Lecturer in Astro-Physics:—A. V. Douglas.

Sessional Lecturers:—H. G. I. Watson. W. H. Barnes.

Demonstrators:—H. W. Harkness. N. Cam. F. T. Davies (on leave). E. E. Watson. J. F. Heard. R. J. Hunter. W. H. Moore.

Instructor in Laboratory Technique:—H. T. Pye.

1. General Course.

Wed. and Fri., at 2; laboratory, Mon., 2-4, or Tu., 4-6, or 4-6 Wed. .....Professor Keys.

Text-books:—Kimball's College Physics (Holt); Laboratory Manuscripts (Renouf Publishing Co.).

2P. General Course (Advanced). Open to Second Year pre-medical and pre-dental students; also available for other Arts students. (Physics 1 or equivalent, prerequisite.)

Tu., Th., at 3; laboratory, Tu., 4-6.....Professor Reilley

Text-books:—Duff's Text-book on Physics (Blakiston); Laboratory Manuscripts (Renouf Publishing Co.). *Reference books:*—Daniel's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

2. Heat, Sound and Light. (Applied Science 311, Lab. 312.)

Tu., Th., Sat., at 11; laboratory, Mon. or Fri., 11-1, or Wed., 2-4. Professor Shaw.

Text-books:—Duncan and Starling's Heat, Light and Sound (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3A. Electricity and Magnetism. (Applied Science 315, Lab. 316.)

Mon., Fri., at 11; laboratory, Fri., 2-4, or Sat., 10-12. Professor Eve.

Text-books:—Hadley's Magnetism and Electricity for Students (1926 ed. Macmillan).

3B. Statics and Hydrostatics.

Wed., at 11.....Professor Foster.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

4. Dynamics.

Two hours, first term; one hour, second term. (A half course combined with Mathematics 4 to form a three-hour unit); Tu., Th., Sat., at 9.....Professor Foster.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

5A. Properties of Matter.

One hour. Sat., at 10; laboratory, three hours.—Professor Foster.

Text-book:—Newman and Searle, "General Properties of Matter" (E. Benn Co.).

5B. Statics, Dynamics of a Particle and Rigid Dynamics.

Tu., Th., at 10.....Professor Eve.

Text-books:—Lamb's Statics and Lamb's Dynamics (C.U.P.).

6A. Electrical Measurements.

Wed., Fri., at 9; laboratory, Wed., 2–6.....Mr. Watson.

Text-books:—Terry's Advanced Laboratory Practice in Electricity and Magnetism (McGraw-Hill); Starling's Electricity and Magnetism (Longmans).

6B. Light. (Replaced by 8B in alternate sessions.*)

Mon., at 9; laboratory, Mon., 2-5. Professor Keys and Dr. Douglas.

Text-book:—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

6C. Electricity. (Applied Science 318.)

Mainly for Electrical Engineering students in Applied Science and students in the course in Engineering Physics.

Second term; Tu., Th., at 9.....Professor Keys.

7A. Electromagnetic Theory.

Th., at 11.....Professor Keys.

Text-books:—Pierce's Electric Oscillation and Electric Waves (McGraw-Hill); and Elements of Electricity and Magnetism, by J. J. Thomson (C.U.P.).

7B. Mathematical Physics.†

Tu., Sat., at 11.....Professor Foster.

Text-books:—Houston's Introduction to Mathematical Physics (Longmans), and Page's Introduction to Theoretical Physics (Von Nostrand).

8A. Molecular Physics.

Wed., Fri., at 10.....Professor Shaw.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold).

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* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '30-'31, '32-'33, etc., and 8B in '31-'32, '33-'34, etc.

† Competent students may substitute 14.

8B. Theory of Heat. (Replaced by 6B in alternate sessions.*)
Mon., at 9 (laboratory,‡ Monday, 2-5).
Professor Shaw and Dr. Douglas.
Text-book:—Robert's Heat and Thermodynamics (Blackie).

9. Radioactivity.
Two hours, second term (three hours laboratory)..Professor Eve.
Text-book:—Rutherford's Radioactive Transformation (C.U.P.).

10. Vector Analysis.
Two hours; first term.....Professor Eve.
Text-book:—Coffin's Vector Analysis (Wiley).

11. Advanced Statics, Dynamics, Hydrodynamics and Sound.
Two hours.....Professor King.
Text-books:—Lamb's Higher Mechanics (C.U.P.); Basset's Hydrodynamics and Sound (Deighton Bell).

12. Kinetic Theory of Matter.
Two hours.....Professor King.
Text-books:—Jean's Dynamical Theory of Gases (C.U.P.); Bloch's The Kinetic Theory of Gases.

13. (a) Quantum Theory.
Th., at 12.....Professor Foster.
Text-book:—Summerfeld's "Atomic Structure" (Methuen).
(b) Relativity.
One hour; second term.....Professor Gillson.

14. Advanced Electricity and Magnetism.
Two hours.....Professor King.
Text-book:—Jean's Electricity and Magnetism (C.U.P.).

15. Laboratory Practice and Physical Manipulation.
A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple

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* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '30-'31, '32-'33, etc., and 8B in '31-'32, '33-'34, etc.

‡ The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

apparatus. This course is designed as an aid and introduction to original research.

One hour; also two hours laboratory.....
Professor Keys, Mr. Pye and Mr. Amesse.

16. Thermodynamics.

One hour.....Professor Shaw.
(Alternate sessions, 1930-31, 1932-33, etc.).

17. Electron Theory.

Two hours.....Professor King.
Text-books:—Richardson's Electron Theory of Matter (C.U.P.), Lorentz, Theory of Electrons (Teubner).

18. Spherical Astronomy and Combination of Observation.

Three hours.....Professor Gillson.
Text-books:—Ball's Spherical Astronomy; Newcomb's Spherical Astronomy (Math. 3 and 4 prerequisite).

19. Astrophysics.

Three hours.....Dr. Douglas.
(Mathematics 5 and 7, and Physics 5B prerequisite.)

Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in the summer months.

Honour Course in Mathematics and Physics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2. First Year students intending to take these Honour courses are advised to take Physics 2 and the advanced section of Mathematics 1.

Second Year:—Mathematics 3, 4, 5; Physics, 3, 4; (Chemistry and English recommended as other subjects to be chosen).

Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8.

Third and Fourth Year Honour students are invited to attend the Journal Club, Colloquium and Physical Society.

Graduate Course in Physics

See page 512.

DEPARTMENT OF PSYCHOLOGY

PROFESSOR AND DIRECTOR OF THE PSYCHOLOGICAL LABORATORY:—
WILLIAM D. TAIT.

ASSOCIATE PROFESSORS:— { CHESTER E. KELLOGG. / J. W. BRIDGES.

DEMONSTRATOR:—N. W. MORTON.

READER:—H. M. ESTALL.

FOR UNDERGRADUATES

1. **Introduction to Psychology.** Second Year.

   Lectures and experiments.

   Mon., Wed., at 10, and one laboratory period to be arranged. This course is a prerequisite for all other courses.

   Professor Tait and Mr. Morton.

2. **General Psychology.** Third and Fourth Years.

   General principles, selected topics from comparative, genetic, differential, and social psychology, with applications, and an introduction to the philosophy of mind.

   Lectures, readings and reports.

   Mon., Wed., Fri., at 12.....Professor Kellogg.

3. **Experimental Psychology and Statistical Methods.**

   Training in laboratory technique and the use of statistical methods in connection with experimental data, mental tests, and educational measurements.

   Mon., Wed., Fri., at 2; two hours laboratory and one lecture or conference per week.

   Professor Kellogg and Mr. Morton.

FOR UNDERGRADUATES AND GRADUATES

4. **Physiological and Experimental Psychology.** Third and Fourth Years.

   First term, structure and functions of the nervous system; second term, advanced experimental psychology, theory and technique. Lectures, readings and reports.

Open only to students who have passed or take concurrently Course 2 or Course 3 or are working in Biology as a continuation subject.

First term; Mon., Wed., Fri., at 10; second term, to be arranged. (Given in 1930-31.)

Professors Tait and Kellogg.

5. **Comparative Psychology.** Third and Fourth Years.

Lectures, readings and reports (half course).

Open only to students who have passed or take concurrently Course 2 or Course 3 or are working in Biology as a continuation subject.

First term; Mon., Wed. and Fri., at 10.....Professor Kellogg. (Given in 1931-32.)

6. **Child Psychology.** Third and Fourth Years.

Lectures, readings and reports (half course).

Prerequisite:—Course 2 or 5, taken previously or concurrently.

Second term; Tu., Th., Sat., at 10.....Professor Tait. (Given in 1931-32.)

7. **Social Psychology.** Third and Fourth Years.

Lectures, readings and reports.

Prerequisite:—Course 2 or 4 taken previously or concurrently.

Tu., Th., Sat., at 10. Given 1930-31.....Professor Tait.

8. **Aesthetics.** Third and Fourth Years.

Lectures, readings and reports.

Prerequisite:—Course 2 or Course 7, taken previously or concurrently, or continuation work in literature or music or philosophy. or continuation work in literature or music or philosophy.

Tu., Th., Sat., at 9.....Professor Kellogg. (Given in 1931-32.)

9. **Educational Psychology.** Third and Fourth Years.

Lectures, readings, experiments, and reports.

Prerequisite:—Course 2 or Course 3, taken previously or concurrently.

Tu., Th., Sat., at 11; two lectures and one laboratory period per week. Given 1930–31.....Professor Kellogg.

10. **Mental Measurements.** Third and Fourth Years.
Lectures, practical testing, reports (half course).
Prerequisite:—Course 3, taken previously or concurrently.
First term; Tu., Th., Sat., at 10.....Professor Tait.
(Given in 1931-32.)

11. **Theory of Aptitude and Achievement Tests.** Third and Fourth Years.
Lectures, readings and reports.
Prerequisite:—Course 10.
Second term; Mon., Wed. and Fri., at 10.....Professor Kellogg.
(Given in 1931-32.)

12. **Psychology of Elementary School Subjects.**
First term; Mon., Wed., Fri., at 10.....Professor Kellogg.
(Omitted 1930-31.)

13. **Psychology of Secondary Education.**
Second term; Mon., Wed., Fri., at 10.....Professor Kellogg.
(Omitted 1930-31.)

14. **Vocational and Industrial Psychology.** Third and Fourth Years.
Lectures, readings and reports.
Prerequisite:—Course 3, taken previously or concurrently.
First term; Tu., Th., Sat., at 11.....Professor Tait.
(Given in 1931-32.)

15. **History of Modern Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
First term; hours to be arranged.....Professor Kellogg.
(Omitted 1930-31.)

16. **Abnormal Psychology.**
Lectures, readings and reports.
Three hours.

Honour Course

Second Year:—1 and Philosophy 1.
Third Year:—Any four full courses 2-16.

Fourth Year:—Any four full courses 2-16 other than those selected in the Third Year. Students taking Honours in Psychology must also take History of Modern Philosophy in the Third or Fourth Year in place of one of courses 2–16. In consultation with the department, allied courses in other departments may be taken instead of certain courses in Psychology. Students are advised to take Greek Philosophy. A knowledge of German is advantageous. At the end of the Fourth Year Honour students will be required to take a comprehensive examination covering the whole field. This examination may be either oral or written.

The requirements for honors in Psychology and other subjects are two courses in Psychology and two in the other subject selected.

Graduate Course

See page 519.

School Service Bureau

The Department of Psychology maintains a School Service Bureau. Its purpose is to furnish aid and advice with regard to intelligence tests, classification of pupils, vocational guidance, remedial treatment, standarized tests and measurements and other psychological aspects of education.

As far as time and equipment permit, this service is at the disposal of superintendents, principals, teachers, parents and others interested in education.

DEPARTMENT OF ROMANCE LANGUAGES

Professor:—R. du Roure.

Associate Professor:—P. Villard.

Assistant Professors:—George Edouard Lemaitre.
Mme. Touren Furness.
L. d'Hauteserve.

Lecturer:—Mme. Durand-Joly.

FRENCH

Owing to the position which the University occupies in the midst of a very large French-speaking population, the Department enjoys the opportunities afforded by French church services, French newspapers,

French theatres, French literary clubs and public lecture courses in the French language. It maintains in consequence a particularly high standard in the study of French. Every lecture, even in the First Year, is given in French, and the complete course of studies is so combined as to give the students not only a theoretical knowledge of French grammar and literature, but a practical ability to talk, read and write French correctly and fluently.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honour courses) counts for 50%.

As there is no oral matriculation examination in this subject, a considerable number of students undertake the work without any knowledge of spoken French. A special section in the First Year is therefore provided for such students, but it is not possible to acquire fluency in the language without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject are therefore urgently advised to follow the French Summer School course either before or after their First Year.

1. **French Language.** First Year.

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11.....Professors du Roure, Villard, Furness, d'Hauteserve and Mme. Durand-Joly.

Texts:—(a) General Course.—Green and Ford, French Composition (Oxford), or Cameron, French Composition (Holt); Lavisse, Histoire de France, Cours moyen; Jules Romains, Knock ou le Triomphe de la médecine, (The Century Co.); Maupassant, Contes Choisis; A. Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—D. L. Buffum, French Short Stories (Holt); Racine, Andromaque (Ginn); Mérimée, Contes et Nouvelles (Oxford); Molière, Les Précieuses Ridicules (Heath); Moraud, French Composition (Oxford).

2. **French Language and Literature.** Second Year.

Section A, Tu., Th., Sat., at 9; Section B, Tu., Th., Sat., at 11.... Professors Furness and d'Hauteserve and Mme Durand-Joly.

Texts:—Des Granges, Morceaux choisis, Classes de Lettres (Hatier); Molière, Le Bourgeois Gentilhomme (Holt); Augier, Le Gendre de M. Poirier (Heath); Des Granges, Précis de Littérature Française (Hatier); Mérimée, Colomba (Heath); Spiers, Graduated Course of Translation (Simpkin, Marshall and Co.).

3. **French Language.** Second Year. (Honour Course.)

Tu., Th., Sat., at 11.....Professors du Roure and Furness.

Texts:—Corneille, Le Cid (Holt); Racine, Britannicus; La Bruyère, Caractères; Molière, Les Femmes savantes (Macmillan); Musset, Trois Comédies (Heath); Hugo, Ruy Blas (Holt); P. Hervieu, La Course du Flambeau (Heath); Pailleron, Le Monde où l'on s'ennuie (Heath); Bowler, Stories by Contemporary French Novelists (Ginn); Louis Hémon, Maria Chapdelaine.

4. **French Literature of the XVIIth and XVIIIth Centuries.** Third Year.

Mon., Wed., Fri., at 10.....
Professor Lemaitre and Mme. Durand-Joly.

Texts:—Des Granges, Morceau choisis, Classes de Lettres (Hatier); Corneille, Polyeucte; Racine, Phèdre; Des Granges, Précis de Littérature Française (Heath); Marivaux, Le Jeu de l'Amour et du Hasard (Macmillan); Beaumarchais, Le Barbier de Séville (Ginn).

Home Readings: Molière, Le Misanthrope; Lesage, Gil Blas (Heath); Voltaire, Selections (The Century Co.).

Prose Composition:—(a) General Course.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London).

5A. **La France Moderne: Institutions politiques et sociales; Politique intérieure et extérieure.** Third and Fourth Years.

First term; Mon., Wed., Fri., at 12.....Professor du Roure.

Texts:—Lanson et Desseignet, La France et sa civilisation (Holt).

5B. **La France Moderne; Le mouvement des Idées.** Third and Fourth Years.

Second term; Mon., Wed., Fri., at 12.....Professor du Roure.

Texts:—Lanson et Desseignet, La France et sa civilisation (Holt).

6. **French Literature of the XIXth and XXth Centuries.** Fourth Year.

Mon., Wed., Fri., at 10.....Professors du Roure and Furness.

Texts:—Hugo, Hernani; Balzac, Le Père Goriot; French Lyrics of the Nineteenth Century (Ginn); Des Granges, Précis de Littérature Française (Hatier); Des Granges, Morceaux choisis, Classe de Lettres (Hatier); Paul Bourget, Un disciple; E. Rostrand, Cyrano de Bergerac.

Home Readings: Chauteaubriand, René; Flaubert, Trois Contes; Guy de Maupassant, Contes choisis; A. Daudet, Le Petit Chose; Anatole France, Le Livre de mon ami.

Prose Composition:—(a) General Course.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London).

7. **Histoire de la langue française.** Third and Fourth Years. (Honour Course).

(Given in 1931-32.)

Sat., at 10.

Texts:—Darmstetter, Cours de Grammaire Historique, Parts I and II.

8. **History of the French Novel.**

Third and Fourth Years (Honour Course).

Tu., Th., Sat., at 12.....Professor du Roure.

9. **History of the French Theatre of the XIXth Century.**

Third and Fourth Years (Honour Course).

(Given in 1931-32.)

Tu., Th., at 10.

10. **Evolution of the French Lyric.**

Third and Fourth Years (Honour Course).

(Given in 1931-32.)

Tu., Th., at 12.....Professor du Roure.

Texts:—French Lyrics of the Nineteenth Century (Heath).

11. **Tableau de la Littérature française contemporaine.** Third and Fourth Years (Honour Course).

Tu., Th., at 10.....Professor Lemaitre.

12. **French Commercial Course.** Second Year.

Mon., Wed., Fri., at 12.....Professor Villard.

Texts:—(a) Des Granges, Précis de littérature française (Hatier); Richards, Manuel de lecture expliquée, XIXème siècle (Cambridge); Sand, La mare au diable (Ginn); Thiers, Bonaparte en Egypte (Holt); (b) Carroué, Manuel de correspondance commerciale; Malakis de Français du Commerce (Holt).

Home Readings:—Daudet, Lettres de mon moulin; Augier, Le Gendre de M. Poirier.

13. French Commercial Course. Third Year.

Mon., Wed., Fri., at 10.....Professor Villard.

Texts:—(a) Des Granges, Précis de littérature française; Montesquieu, Lettres Persanes (Macmillan); Rudmore-Brown, French Short Stories (Oxford); Chateaubriand, Atala (Heath); (b)—Janau, Commercial Correspondence (Longmans); Jago, La France qui travaille (Heath); Daniel Massé, Initiation économique (Hachette).

Home Readings:—Renault, Lectures Commerciales (Oxford); Mérimée, Colomba.

14. French Commercial Course. Fourth Year.

Mon., Wed., Fri., at 9.....Professor Villard.

Texts:—(a) Clerget, Manuel d'économie commerciale; Gide, Principles d'économie politique; (b) Lanson et Desseignet, La France et sa civilisation (Holt); Pargment, Trente-trois Contes et Nouvelles (Holt).

Home Readings: Roe, La France laborieuse (Nelson); Calvert, The French newspaper (Oxford).

15. French Science Readings. First Year, B.Sc. Course.

Tu., Th., Sat., at 9.....Professor d'Hauteserve.

Texts:—Greenfield and Babson, Industrial and Scientific French (Ginn); J. Verne, Vingt mille lieues sous les mers (Heath); J. Verne, Cinq semaines en ballon; Henry Daguerche, Le Kilomètre 83 (Nelson).

Honour Course in French

Prerequisite:—1.

Second Year:—2 and 3.

Third Year:—4, or 5A and 5B, and 8 and 11 and a full course in another subject approved by the Head of the Department.

Fourth Year:—6, or 5A and 5B, and 8 and 11 and a full course in another subject approved by the Head of the Department.

French Requirements for the Honour Course in French and Other Subjects

Second Year:—2 and 3.

Third Year:—4, or 5A and 5B, and 8 or 11.

Fourth Year:—6 or 5A and 5B, and 8 or 11.

M.A. Course

See page 521.

McGill, 1930-31

DEPARTMENT OF SOCIOLOGY

ASSOCIATE PROFESSOR AND DIRECTOR OF THE SCHOOL FOR SOCIAL WORKERS:—CARL ADDINGTON DAWSON.

ASSISTANT PROFESSOR:—EVERETT CHERRINGTON HUGHES.

ASSISTANTS:—HELEN MACGILL HUGHES. HENRY G. TUTTLE.

1. Introduction to the Study of Society. Second Year.

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

(a) Tu., Th., Sat., at 10.....Professors Dawson and Hughes.

(b) Tu., Th., Sat., at 11.....Professors Dawson and Hughes.

2. The Community. Third and Fourth Years.

A study of Greater Montreal in comparison with the small town and open country communities; analysis of the basic forces that condition the social life and social institution of the great community; the trend of urbanization and its effects on human behaviour; cities as centres of dominance and of culture; student research under direction.

(Given in 1931-32.).....Professor Dawson.

3. Immigration. Third and Fourth Years.

Canadian population, racial origins, racial differences and race relations; social effects of migration and immigration; selection and assimilation of immigrants; the optimum population for Canada.

Second term; Tu., Th., Sat., at 9.....Professor Dawson.

Dr. Dawson and Mrs. Hughes and Research Assistant.

4. Social Pathology. Third and Fourth Years.

The processes of social disorganization; the basic causes of poverty, unemployment, irregular work, and the consequent demoralization of the individual and disorganization of the social group; modern methods of research related to social pathology.

Second term; Mon., Wed., Fri., at 10.....Professor Hughes.

Texts:—Parmelee, Poverty and Social Progress (Macmillan).

5. **Social Origins.** Third and Fourth Years.

The culture and social organization of primitive or pre-literate peoples, including anthropological data on:—Marriage and kinship; property and the division of labour; magic, religion and science; taboos, customs and morals; myth, folklore and legend; art, ornament and decoration; war, slavery, punishment and the state; the mind of primitive man. The processes of invention and diffusion in the origin and development of culture.

First term; Mon., Wed., Fri., at 9.....Professor Hughes.

6. **Social Movements.** Third and Fourth Years.

The natural history of typical social movements, such as revivals, migrations, revolutions, reform and political movements; classification of such movements; the "life-cycle" of a social movement; social movements in relation to social change.

Second term; Mon., Wed., Fri., at 9.....Professor Hughes.

7. **The Family.** Third and Fourth Years.

The study of the family as the fundamental institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life; present-day disorganization and reorganization of family life.

First term; Mon., Wed., Fri., at 10.....Professor Dawson.

8. **Social Research.** Graduate Seminar. Research problems, theory and methods.

Hours to be arranged.....Professors Dawson and Hughes.

9. **The Sociology of the Child.** Third and Fourth Years.

The child as a developing personality; the normal cycle of social growth in the family; modern supplementary institutions for the normal child, such as the school, the playground and the social agency; the dependent child and the delinquent child, and the institutions which treat them.

First term; Mon., Wed., Fri., at 12.....Professor Hughes.

10. **Social Institutions.** Third and Fourth Years.

The institution as a unit of social structure and as a bearer of culture; the processes by which institutions arise, develop and die; the life-cycle of such institutions as the sects, the church, the school, the newspaper, etc.; crises and the re-organization of institutions.

(Given in 1931-32.).....Professor Hughes.

11. Social Attitudes and Personality. Graduate Students.

Social situations and the development of social attitudes; the process of social conditioning in relation to personal organization; social types; problems dealing with the social adjustments of persons. An extensive use of descriptive material, biographical and autobiographical documents.

Hours to be arranged.....Professor Dawson.

12. Culture Areas in Canada. Fourth Year and Graduate Students.

The application of anthropological and sociological methods to the study of culture areas in Canada. These areas are separated from each other by the main physiographic regional divisions. Each region breaks up into the older areas of settlement and pioneer belts. The basic structure and related social and cultural organization of each area will be studied. The course will also cover: A comparison of the main culture traits and their diffusion in each area; research projects to discover the indices of culture organization and social change in the various areas; the conflict of British, American and Canadian culture patterns in Canada.

(Given in 1931-32.).....Professor Dawson.

Honour Course

Second Year:—Course 1 and two courses selected from any two of the allied departments of economics, psychology, philosophy and history.

Third Year:—Three full courses from 2 to 13.

Fourth Year:—Any three full courses from 2 to 13 other than those selected in the Third Year.

At the discretion of the Department certain courses in other departments may be substituted for certain courses in Sociology. A liberal use is made of the courses of allied departments.

Students taking honours in Sociology and one other subject are required to take two courses in each department.

Graduate Courses

See page 522.

DEPARTMENT OF ZOOLOGY

PROFESSOR:—ARTHUR WILLEY.

ASSISTANT PROFESSOR:—N. J. BERRILL.

LECTURER:—MRS. KATHLEEN PINHEY.

DEMONSTRATORS:—{ ————————. B. W. TAYLOR.

1. Elementary Zoology.

First term; Mon., Wed., at 2.

Two hours laboratory; Fri., 2–4.....Professor Berrill.

1M. General Zoology.

First term; Tu., Th., at 2.

Four hours laboratory; Mon. Wed., at 9.....

Professor Willey and ————————.

2. Zoology of Invertebrata.

Mon., Wed., at 11.

Four hours laboratory; Mon., Wed., 2 to 4.....Professor Berrill.

3. Colloquium.

Second term; Wed., at 5.....The Staff.

4. Comparative Anatomy of Vertebrata.

Mon., Fri., at 10.

Two hours laboratory; Th., 9–11.....Professor Willey.

5. Comparative Embryology.

Second term; Tu., Fri., at 11.

Two hours laboratory; Tu., 2–4.....Professor Berrill.

6. Experimental Zoology.

By arrangement; second term.....Mrs. K. Pinhey.

7. Animal Ecology.

Tu., at 10.....Professor Willey.

Honour Course in Biology

Prerequisites:—Botany 1; Chemistry 1 and 1C; Zoology 1.

Second Year:—Botany 2 and 3 (with laboratory work); Zoology 2, with at least Physics 1 or Chemistry 2 or their equivalent.

Third Year:—Botany 4 and 6; Zoology 3 and 4.

Fourth Year:—Botany 7 and 8; Zoology 5 and 6.

DEPARTMENT OF CHINESE STUDIES

Professor:—Kiang Kang-hu.

It is now acknowledged by institutions of higher learning on this side of the Pacific that, in their curricula, more account should be taken than has been the case hitherto of the civilization and culture of the nations of the East, especially of the vast Empire of China, not only for the intrinsic value of the studies themselves, but also because of the fact that the relations between Canada and the United States on the one hand and the Orient on the other are bound to play a large part in the future history of the world. It has therefore been decided to establish in McGill University a Department of Chinese Studies for research in the history, politics and literature of that country. The Gest Chinese Library, now housed here, is considered to be one of the finest of its kind in the world and it offers unlimited opportunity for study along the lines indicated. Regular classes will be organized at the opening of the session 1930-31.

DEPARTMENT OF PHYSICAL EDUCATION

Director, Department of Physical Education:—Arthur S. Lamb.

University Medical Officer:—F. W. Harvey.

University Medical Officer for Women:—Mary Childs.

Athletics Manager:—D. S. Forbes.

Track Coach and Assistant Physical Director:—
F. M. Van Wagner.

Assistant Physical Director:—Hay Finlay.

Physical Director for Women:—Jesse S. Herriott.

Assistant Physical Directors for Women:—
Ethel Wain.
Ruth Harvey.
Zerada Slack.

FOR MEN

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students and all students coming to the University for the first time, will be required to pass a physical examination. Students of all years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination will be announced at registration.

At the same time each student will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, under which circumstances he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work, as the case may require.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.*

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

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* Owing to lack of accommodation, this requirement is suspended for the session 1930-31.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, and for this time only when requisitioned for by the Department. A leaflet and handbook concerning this service and the general work of the Department, together with the regulations governing athletics, will be distributed at the opening of the session.

FOR WOMEN (Royal Victoria College)

In order to safeguard the health of the women undergraduate students, all entrants will be required to pass satisfactorily a health examination by the Medical Officer of the University. An effort will be made to furnish adequate health service to all women students during their University career and a bulletin giving the details will be distributed at the time of registration. The University will not be responsible for accidents occurring whilst this course is being taken.

Work in the Department, amounting to a total of 126 hours during the four years' course, is required of all undergraduate students. The requirements for the students in the Faculty of Music is a total of 86 hours,--two hours per week for the first two years. Partial students may register for work in the Department on payment of $5.00 for a class of two periods a week. Students repeating a year are not exempt from work in the Department for that year, but are required to repeat their work in Physical Education. Students will be graded for work in this Department according to the classifications governing other subjects.

Students entering with advanced standing are advised to consult the Physical Director for Women regarding their requirements in this Department.

The results of the health examination will determine the programme, and every effort will be made to suit the activities to the needs of the student.

Any student failing to meet the above requirement will be reported to the Dean as conditioned in the subject of Physical Education. Such condition may be removed only by repeating the work of a term. Not less than one month before the conferring of degrees in each session, the Director shall furnish the Registrar of the University for transmission to Corporation and the Faculty, a list of all students being candidates for degrees at the forthcoming convocation who have failed to satisfy the requirements of the Committee on Physical Education.

Strathcona Prizes are offered in this Department, open to students of all years. Regulations governing the awarding of these prizes will be announced in the Spring of each year.

Every student is required to wear the costume recommended by the Department.

Intramural and extramural activities are organized by the McGill Women Students' Athletic Association, Group II, R.V.C., under the supervision of the Department.

During the session and including the Christmas holidays, all teams and individual students desiring to participate in "outside" athletics must first apply in writing to the Physical Director for Women, by whom all such sanctions are granted. Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics for the remainder of the College Session.

To meet the requirements in the Department of Physical Education for Women, all undergraduate students should enrol for two classes per week from among the following courses:

1. **Intermediate Formal Gymnastics.** Entire session.
   Wednesday, at 12.
   This comprises marching tactics, rhythmic gymnastics, and elementary work on apparatus.

2. **Advanced Formal Gymnastics.** Entire session.
   Monday, at 12.
   This includes advanced work of course No. 1.

3. **Intermediate Informal Gymnastics.** Entire session.
   Tuesday, at 12.
   The material of this course will include games, tumbling, and pyramids.

4. **Clog and Country Dancing.** Entire session.
   Monday, at 3.

5. **Intermediate Interpretative Dancing.** Entire session.
   Monday, at 12.
   This material is a rhythmic interpretation of free and natural movements.

6. **Intermediate Character and National Dancing.** Entire session. Wednesday, at 2.

This course includes modified bar work, dancing technique, character and national dances.

7. **Advanced Character and National Dancing.** Entire session. Friday, at 12.

Advanced material of course 6.

8. **Badminton.**

Elementary Sections:

Wednesday, at 12. Thursday, at 2. Friday, at 12.

Advanced Sections:

Tuesday, at 11. Wednesday, at 3. Thursday, at 10. Friday, at 11. Friday, at 2.

This course includes practice in playing Badminton and participation in Tournaments. Racquets must be furnished by the students.

9. **Elementary Fencing.** Entire session.

Tuesday, at 10.

The material of this course includes fundamentals of fencing with practice in fencing plays.

10. **Intermediate Fencing.** Entire session.

Thursday, at 2.

Fencing plays and participation in bouts.

11. **Elementary Swimming.**

Monday or Thursday, at 3-3.30, at Y.W.C.A.

From October to December and from March to May.

In the interval of January and February the following indoor classes may be taken:—Gymnastics, Basketball, Advanced Badminton, Ice-Hockey.

The swimming Course comprises class instruction in strokes and elementary diving. (An extra fee of $3.00 per year is charged for Swimming).

12. **Advanced Swimming.**

Monday or Thursday, 3.30-4.

Same seasonal organization as for course 11.

13. **Intermediate Basketball, Baseball and Volleyball.** Entire session.

Tuesday, at 2.
This combined course consists of:—
October to March, Basketball.
March to May, Baseball and Volleyball.

14. **Advanced Basketball, Baseball and Volleyball.** Entire session.
This combined course consists of:

October to March:—Monday, at 5, Wednesday, at 4, Thursday, at 5, Basketball.
March to May:—Monday, at 5, Volleyball; Wednesday, at 4, Volleyball; Thursday, at 5, Baseball.

15. **Elementary Tennis.** Entire session.

Sections: Monday, at 11. Tuesday, at 9. Tuesday, at 3. Thursday, at 11. Racquets must be furnished by the students.

16. **Field Hockey.** Fall term only.

17. **Archery.** Fall term only.

18. **Ice Hockey.** Winter term only.

Sections: Monday, at 4. Wenesday, at 2.

19. **Horseback Riding, Ski-ing and Skating.**

The above activities may be substituted for an indoor class if notice is given to the respective instructor and the activity is taken the same day.

THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal

FOUNDATION AND HISTORY

The College was opened September 4th, 1899.

It is the outgrowth of plans conceived during the early years of his principalship by the late Sir William Dawson, which resulted in the establishment of the Ladies' Educational Association. Under the auspices of the Association, courses of lectures, delivered chiefly by Professors of McGill University, were offered to women from 1870 until 1884, thus placing within their reach, to some extent at least, the advantages of a Collegiate and University education.

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of $50,000, and, in 1887, a further sum of $70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College, as a distinct course in the Faculty of Arts, with the understanding that as soon as practicable the classes were to be created into a separate college of McGill University, with a building separate from that of McGill College. Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees, and the regulations for ranking, for honours, prizes and medals should be identical with those for men.

As a result of this generous gift, and in accordance with the conditions attached, courses of instruction, identical in subject and in standard with those of the Faculty of Arts, were established for women in 1884. These courses were given in the Arts Building, some of the work of the Third and Fourth Years and of the Honour Courses being conducted in joint classes.

The first graduating class of eight women was presented for the degree of Bachelor of Arts in 1888.

The ultimate object of Lord Strathcona had been the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that the separate classes are held mainly in the College building. Women have continued to prepare for degrees in Arts, including pure science. Through the wisdom of Lord Strathcona, provision was also made for the study of music. Since the establishment of music as a separate department of the University in the Conservatorium of Music, independent instruction in music in the College has ceased, but women students resident in the Royal Victoria College may take degree courses in music at the Conservatorium.

Resident students of music have the use of pianos in two practising rooms and at certain hours in other parts of the building.

Facilities for lawn tennis and for skating are provided. Subject to regulations, the students have the privilege of using the University grounds.

THE COLLEGE BUILDING

The College building, surrounded by garden and tennis courts, was erected at a cost of about $400,000 at the head of Union Avenue, upon land adjacent to the University Campus.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the faculty room, the students' common room, a spacious dining hall, and three lecture rooms. On the first floor are other lecture rooms, the library, reading room, and a handsome assembly hall, which is used for Conservatorium concerts and other University purposes. This hall is sometimes lent for purposes that are in harmony with the objects of the College. The gallery, which is reserved exclusively for the use of College students on such occasions, affords the latter many opportunities of educational value. The second and third floors and a small part of the first floor are occupied by the rooms of the Resident Staff and students. Each student has a separate study-bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students. An Annex in charge of a College Tutor and adjacent to the College was opened in 1925-26. It provides study-bedrooms for students who in all other respects share the life of the students in the College building.

At the opening of the session of 1929-30, it was found necessary to open a second temporary annex. This fact, indicating that the capacity of the residence hall is now quite overtaxed, has led to the proposal to build a second dormitory. Plans have already been drawn up and operations will begin almost immediately on the lot adjoining the College on its Western side. This new wing when completed will more than double the housing capacity of the College.

A large gymnasium is provided, fully equipped with modern requirements. In connection with the gymnasium are bath-rooms and dressing-rooms.

ADMISSION AND INSTRUCTION

As the College is a college of McGill University, and its students are registered in the Faculty of Arts, they are required to comply with the regulations concerning discipline and instruction made by the University and Faculty, and, in addition, with such regulations as may be made by the Royal Victoria College.

Undergraduates are required to pass the Matriculation Examination of the University, or an equivalent examination (see page 77) and can proceed to the degrees of B.A. and B.Sc. under the regulations of the Faculty of Arts as stated on pages 148 to 159. They are required to wear academic dress. Partial students, in order to obtain admission, must pass the Matriculation Examination in the subject or subjects which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. Students not residing with their parents or guardians in Montreal are expected to apply for residence at the College. Those who do not so apply are required to submit their plans for residence to the Warden and to obtain written approval. No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the University. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination. No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, shall enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of two physicians (Dr. W. F. Hamilton and Dr. C. F. Martin), who may be consulted, free of charge, by

arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

Instruction is given by professors and lecturers of the University and lecturers and tutors of the Royal Victoria College, who are also members of the various teaching departments of the Faculty of Arts. Graduate students can proceed to the degrees of M.A., M.Sc. and Ph.D.

Lectures are given in the College or in the University buildings, practical instruction in science being given in the University laboratories. Students are assisted in their studies by the resident staff.

Students of the College have the use of the University Library. There is also a College Library, in charge of a trained Librarian, comprising works of general literature and the chief stated books required for the University curricula, the Department of Romance Languages being especially well represented. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, is open to students of the College.

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

EXHIBITIONS AND SCHOLARSHIPS

For a statement of the exhibitions and scholarships open to women students of the University, see pages 106 to 113.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the City, the Warden and Staff are empowered to make nominations in any of the four college years to not more than three additional exhibitions of the value of $100 each.

TUITION FEES

Students (graduate, undergraduate or partial, resident and non-resident) pay the same fees as are charged in the Faculty of Arts. For

undergraduate students the fee is $150 (this includes fees for library, gymnasium and graduation). For further information, see pages 133 to 136. Every undergraduate pays an Athletics or Grounds fee of $6.00, the McGill Women Students' Society fee of $2.50, and $1.50 for the McGill Daily. All fees are payable to the Bursar, McGill University, on October 2nd and 3rd.

BOARD AND RESIDENCE

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. *Application for residence should be made early, as accommodation in the college is limited.* No room is assigned for a shorter period than the University session. Students of the First Year who, under regulation of the Faculty of Arts, are dropped from the University (see page 149) will be required to withdraw from residence. The charge for board and residence, in addition to the sessional fee for tuition, is $500 ($200 for room, $300 for board). This may be paid in two equal instalments of $250 each, in October and February. Room rent includes all expenses of heat and light (not other electrical attachment, for which fees will be charged). These charges cover the University session from the first day of registration (September 26th) to the close of the examination (for members of the graduating class, to the day after Convocation, May 30th). A deposit fee of $10.00 is required when a room is reserved, and is deducted from the charges for the first term.

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination, and students arriving in September for practice teaching, supplemental or matriculation examinations, are charged an additional fee of $1.50 a day. No additional fee is charged to students returning earlier than September 26th, for scholarship examinations. With the permission of the Warden, students may remain in residence during the Christmas vacation. They will be required to pay a fee of $1.50 a day for board and residence.

The charges for tuition and room rent are not subject to remission or reduction under any circumstances. Rooms cannot be reserved for a shorter period than the University session. In case of prolonged illness and absence from College for a period of six weeks or more a proportionate reduction is made in the charge for board. Information concerning Bursary and Loan Funds can be obtained from the Warden.

Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the Session does not entitle them to proceed to the next year. *(See page 163.)*

PHYSICAL EDUCATION

See pages 224 to 227.

MUSIC

Students taking courses in music leading to the degree or diploma are eligible for residence in the College.

Instruction in music is offered at the McGill Conservatorium of Music. Students may prepare for the degree examination in music of the University, or for the Diploma of Licentiate in Music.

For information regarding courses in Music, see the Announcement of the Conservatorium of Music and pages 420 to 444.

COLLEGE SOCIETIES

The students maintain the following societies:—The Royal Victoria College Undergraduates' Society, and also the Athletic Association, Group II, R.V.C.; the Delta Sigma Literary and Debating Society; La Société Française; the Women Students' Christian Association (R.V.C.); the Music Club of the R.V.C.; all organized under the McGill Women's Students' Society.

FACULTY OF ARTS

EXAMINATION TIME TABLE

Sessional Examinations, May 1930. *Subject to Revision.*

DATE	MORNING	AFTERNOON
Thursday, April 30th.	Botany, 3. Latin, 11, 12. French, 1 and Adv. French, 14 (Com. IV). Geology, 1. German, 9. History (special subjects). Physics, 6A Accountancy (Com. II).	Chemistry, 7. Latin, 12. Economics, 14. Geology 1 (Museum) German, 9. History, 2. Hebrew, 5. Physics, 8B. Sociology, 11. Spanish (Com. III).
Friday, May 1st	Greek, 11. Economics, 21. (Com. II). Economics, 25 French, 2A, 15. Geology, 3 (Museum). German, 1 and Adv. History, 7. Mathematics, 5, 7, 10. Physics, 4.	Botany, 2. Greek, 11. English, 17. Geology, 5. German, 1 and Adv. German, 4. History, 3. Physics, 6C Psychology, 8. Sociology, 2. Spanish (Com. IV).
Monday, May 4th.	Chemistry, 12. Latin, 1. English, 6. French, 4, 6. German, 5B. Mathematics, 2A, 9. Physics, 5A. Psychology, 1, 12. Zoology, 4.	Latin, 1. Economics, 7. French, 13 (Com. III). History, 8. Hebrew, 3. Mathematics, 9. Physics, 8A. Sociology, 4.

	Morning	Afternoon
Tuesday, May 5th.	Greek, 1, 12. Economics, 23, 24. French, 7. Geology, 8. Hebrew, 8. Mathematics, 42 (Com. II). Philosophy, 1. Psychology, 6. Sociology, 1A.	Chemistry, 8. Greek, 12. English, 13. French, 9. German, 2, 3. History, 4, 5. Physics, 5B. Zoology, 7. Accountancy (Com. III). Spanish (Com. I).
Wednesday, May 6th.	Chemistry, 6. English, 15. Geology, 10. Mathematics, 1 (Alg.) and Adv., 6. Physics, 3A. Accountancy (Com. IV).	Chemistry, 14. Greek, 2. Economics, 1 and 2, 22 German, 5A. Mathematics, 6. Hebrew, 4. Physics, 3B. Ancient History.
Thursday, May 7th.	English, 10. French, 2E, 3. German, 12. History, 1. Mathematics, 43. Physics, 2, 7B. Spanish (Com. II).	Greek, 4. German, 14. Physics, 7A. Sociology, 1B. Marine Insurance
Friday, May 8th.	Chemistry, 1, 9 (Dr. Hatcher). Latin, 3. Economics, 29. German, 7. History, 6. History (General Paper). Philosophy, 2. Accountancy (Con. I).	Chemistry, 4, 15. Latin, 3. Economics, 3, 16. English, 11. French, 5B, 12 (Con. II). German, 7. Mathematics, 2. Hebrew, 1, 7. Philosophy, 2. Psychology, 2.

Saturday, May 9th.	Greek, 5. Economics, 13. English, 2. French, 10. Philosophy, 4. Mathematics, 11.	Chemistry, 2. Greek, 5. Latin, 2. English, 1, 20. Geology, 2. Mathematics, 3, 11. Hebrew, 2, 10.
Monday, May 11th.	Chemistry, 1 (Prof. Evans). Chemistry, 3B2, 7A. Economics, 5. English, 12. Psychology, 3.	Botany, 6. Greek, 3. Economics, 11. Physics, 1, 2P.
Tuesday, May 12th.	Economics, 9. English, 4. Hebrew, 9. Sociology, 13.	Botany, 1. Botany, 4. Education, 2. Hebrew, 6. Zoology, 2.
Wednesday, May 13th.	Chemistry, 1 (Lab.), Mathematics, 4B. Botany, 7.	Botany, 1M. 3B1. Philosophy, 5. Zoology, 6.

SCHOOL OF COMMERCE

COURSE FOR THE DEGREE OF BACHELOR OF COMMERCE

The course extends over four years, and students who successfully complete it will be granted the Degree of Bachelor of Commerce (B. Com.).

The curriculum is as follows:—

FIRST YEAR

Obligatory Subjects

English 1 and 2.
Mathematics 1.
French, or **Spanish**, or **German**.
Accountancy.

Optional Subjects (two to be chosen)

Latin, or **Greek**.
German, or **Spanish**, or **French**.
Physics, or **Biology**, or **Chemistry**.
History 1.

N.B.—(a) High School Physics is a prerequisite to Chemistry.
(b) Students intending to take up Mathematics 9 in the Fourth Year must obtain 65 per cent in the Mathematics of the First Year.

SECOND YEAR

Obligatory Subjects

French 12, or **Spanish**, or **German** (continued).
Accountancy.

Optional Subjects (three to be chosen)

Economics 21.
English.
Mathematics 42.
Mathematics 3 or 4.
Psychology.
German, or **Spanish**, or **French** 12 (continued).
Chemistry.

N.B.—(a) Students preceding to Mathematics 9 in the Fourth Year must pass in Mathematics 42, and in Mathematics 3 or 4, with high marks in the first class.
(b) Mathematics 42 is a prerequisite to Third and Fourth Year Accountancy.

THIRD YEAR

Obligatory Subjects

French 13, or **Spanish** (continued for students who have taken one of these subjects during their First and Second Years).

Optional Subjects (four 3-hour courses, or their equivalent, to be chosen).

Accountancy.
Business Organization and Scientific Management (half course).
Vocational and Industrial Psychology 14 (half course).
Commercial Law.
Economics 22.
Economics 23 and 24, or 25 and 26.
English.
Mathematics 3 or 4.
Mathematics 43 (half course).
Mathematics 8.
Spanish, or **French** 13 (continued).

N.B.—(a) Only half credit will be given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any Year except the First.

(b) Mathematics 3, 4, 8 and 42 must be taken by students proceeding to Mathematics 9 in the Fourth Year. High first class standing is required.

(c) First and Second Year Accountancy are prerequisites to Accountancy in this Year.

(d) Economics 21 is a prerequisite to all the other courses in this Department.

(e) Second Year Psychology is a prerequisite to Business and Industrial Psychology.

FOURTH YEAR

(Five 3-hour courses, or their equivalent, to be taken.)

French 14 (continued).
Spanish (continued).
Accountancy.
Mathematics 9 or any other approved **Mathematical** course not previously taken.

Commercial Law.
Transportation and Marine Insurance (half course).
Mathematics 43 (half course).
Economics 27.
Economics 28 and 29.
English.

N.B.—(a) Third Year Accountancy, Mathematics 42, Business Organization and Scientific Management and Commercial Law are all prerequisites to Fourth Year Accountancy.

(b) Economics 21 is prerequisite to all the courses in Economics in the Fourth Year.

(c) The Mathematical courses prescribed in the first three years are all prerequisites to Mathematics 9 in the Fourth Year.

(d) Mathematics 43 and English can be taken in either the Third or the Fourth Year.

(e) Candidates proceeding to the diploma of C.A. must take the Commercial Law course in both Third and Fourth Years, and must obtain a minimum of 60% of the marks assigned to these two courses.

Graduates in Commerce may obtain a B.A. degree by one additional year of residential study in Arts; provided that during the five years of their course they have satisfied all the requirements for this degree.

Graduates in Commerce, who during their course have taken the requisite programme in Economics, and who have obtained in Latin a standing equivalent to entrance to the Second Year Arts, may enter the Graduate School as candidates for the M.A. degree in Economics and Political Science. The requisite programme in Economics consists of courses 21, 22 and 27 with 23, 24, 28 and 29.

Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures.

Graduates in Commerce, who have pursued the requisite programme in Economics, but who cannot offer Latin, may enter the Graduate School as candidates for the M.Com. degree in Economics or Political Science. This post-graduate work will here be the same as that outlined for the M.A. degree.

DIPLOMA OF LICENTIATE IN ACCOUNTANCY

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Society of Chartered Accountants of the Province of Quebec or into the Institute of Accountants and Auditors of the Province of Quebec, or into the Corporation of Public Accountants of the Provnce of Quebec, the student must satisfy the following conditions:—

(a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.

(b) He must pursue the course of studies prescribed in this programme for Accountancy students.

(c) He must comply with all ordinances regulating practical work to be done by students during the vacation.

(d) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.

(e) He must have attended as an undergraduate, the course in Mathematics 43 given in the Third and Fourth Years, and have obtained at least 50 per cent of the marks obtainable at the examination in this subject. Failing this, he will be required to take the course in Elementary Actuarial Science described at the end of this Announcement, in the description of "Four-year course for students of the Accountancy Associations of the Province of Quebec." In Commercial Law of the Third and Fourth Years 50 per cent is sufficient to enable a student to pass from year to year and to obtain the degree of B.Com., but a student who desires to proceed to the diploma of Licentiate in Accountancy must obtain 60 per cent at least in each branch.

(g) He must attend the post-graduate course in "Final" Accountancy and Auditing.

(g) He must then pass successfully the final examination in Accounting and Auditing before a board of six examiners composed as follows: the Director-Secretary of the School of Commerce, two Professors of McGill University, a member of the Society of Chartered Accountants of the Province of Quebec, a member of the Institute of Accountants and Auditors of the Province of Quebec, and a member of the Corporation of Public Accountants of the Province of Quebec; or before a board of five exaniners should one of the Associations mentioned fail to nominate its delegate, or of four examiners should two do so, or of three, if all.

McGill University has entered into an agreement with the Society of Chartered Accountants of the Province of Quebec, with the Institute of Accountants and Auditors of the Province of Quebec, and with the Corporation of Public Accountants of the Province of Quebec, whereby the candidates of these Associations (non-graduates) will take the final examinations conjointly with the University candidates. The papers set will be the same for both classes of candidates, but the University will retain its own Board of Examiners according to the provisions laid down in Bill No. 21. (See pages 251 to 254 for description of "Four-Year Course" for students of the Accountancy Associations of the Province of Quebec.)

The Society of Chartered Accountants of the Province of Quebec has agreed to accept apprenticeship in an Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

The examination in Final Auditing and Accounting will be held in the month of May each year.

The fee for the examination in Final Auditing and Accounting is $25.00. Previous examination papers may be obtained at the Bursar's Office for $1.00 per set.

N.B.—For the benefit of graduates located in the West of Canada, centres for the final examination in Accounting and Auditing may be established in Winnipeg and Vancouver. Those wishing to sit at either of these centres should give early notice (before April 1st) to the Registrar of McGill University. Such notice should be accompanied by the special fee of $50.00.

COURSES OF LECTURES

ACCOUNTANCY

The accountancy work has been carefully graduated and correlated and is intended not merely to fulfil its part in a general scientific business training, but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice.

FIRST YEAR

The following plan will give a good indication of the ground covered in this year:—

The principle of debit and credit; books of original record, how they should be kept, and how utilized; documents employed in connection with them; sales, purchases, consignments, and how to handle them; returns inwards and returns ontwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes, and the proper methods of treating these operations in the accounts; single entry, how to change to double entry, and vice versa; distinction between revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships.

The student will be required to sift and classify his detail, write up all the books of record and account mentioned, and focus results of the various transactions or operations into the final statements.

SECOND YEAR

The subject matter for this Year will be as follows:—

Special problems that occur in connection with partnerships: The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and records required; sectional balancing of ledgers and systems of internal check; analysis of expenses; distribution of expenses over departments; results in each department; comparison of these results with those shown in other periods; manufacturing accounts; the elements of cost accounting; records to take care of purchases; the voucher system; depreciation and methods of providing for it; allowances and reserves.

THIRD YEAR

The work of the Third Year will embrace:—

(a) Theory of the Balance Sheet: Its form and elements; valuation of these elements; comparative balance sheets and deductions to be drawn from them; double account system; the income statement.

(b) Corporation Finance: Development of the corporation; status and interior organization of the corporation; how to incorporate; different classes of incorporation; promotion and underwriting; stock and bond issues; temporary loans; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; consolidations; insolvency; re-organizations; different bases of capitalization; problems connected with stock and bond issues; bonus stock; treasury stock; watered stock; discount and premium on bond issues; sinking funds.

(c) Export Houses: Records and accounting system required.

(d) Cost Accounting: General considerations; advantages of cost systems.

FOURTH YEAR

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting: Control of stores, purchasing and issuing, the running inventory; quality, remuneration and control of labour, different methods of distributing overhead expenses or "burden" and their limitations; calculation of machine-rates; waste and leakage in factories; idle time; forms used in different "job and process" costing systems; how selling price is computed; connection of cost records with general accounts.

Branches, Consolidations, Mergers: Accounts of head office and of branches; consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; inter-company profit and liabilities; capital assets and capital liabilities; initial surplus and goodwill.

Insolvency Accounts: Various schedules adopted; statements of affairs; deficiency statement; realization and liquidation account.

Auditing: Considerations applicable to all undertakings, and special considerations applicable to particular concerns.

Trustees' Accounts: Executorships and administratorships; accrued claims; accrued expenses; corpus and income.

Accounting in Insurance Companies: General considerations; systems used.

Bank Accounts: General considerations.
Municipal Accounts: General considerations.
Peculiarities in the form of accounts required in other undertakings.

Professor R. R. Thompson.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and classification of business organization; tests of efficiency in business organization; social and economic and legal aspects in the following types of organization; single proprietorship; partnership; joint stock company; corporation; agreements, pools, kartells, simple business trusts; combination trusts; community of interest organizations; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning of a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; the committee system; the location of industries; principles of management; types of management; departmental relations; standardization and equipment; standardized operations; written standard-practice instructions; adequate records; efficiency rewards.

Professor R. R. Thompson.

CHEMISTRY

The course includes a study of the more important elements and compounds, the general laws and principles and the fundamental theories of the science; with as many industrial applications as time will allow. The lectures are illustrated with specimens, experiments, diagrams, lantern-slides, etc. The general intention of the course is to give a thorough training in the basic principles of the science and their applications, so that chemical problems arising in connection with future work and study may be intelligently considered.

Text-book:—McPherson and Henderson, "A Course in General Chemistry."

ECONOMICS AND POLITICAL SCIENCE

SECOND YEAR

21. Elements of Political Economy.

Tues., Thurs., Sat., at 9.....Professor Culliton

THIRD YEAR

22. Economic Distribution.

Rent, wages, interest, profits, population, socialism and social reforms.

Mon., Wed., Fri., at 11.....Professor Day.

23. Elements of Political Science and Comparative National Government and Taxation.

General principles of government, and national government and taxation in Great Britain and the United States.

First term; Mon., Wed., Fri., at 12.....Professor Leacock

24. Government and Taxation in Canada.

Federal, provincial and municipal government and systems of taxation.

Second term; Mon., Wed., Fri., at 12.....Professor Leacock.

25. International Trade and Trade Policy.

First term (Not given in 1930-31).....Professor Day.

26. Social and Industrial Legislation.

A study of legislation to include factory acts, labour legislation, pensions, insurance, etc.

Second term (Not given in 1930-31).....Professor Farthing.

FOURTH YEAR

27. Economic Theory of Exchange.

Money, banking, prices, index numbers, trade tariffs.

Tu., Thurs., Sat., at 10.....Professor Day.

28. Canada—Economic Problems.

First term; Mon., Wed., Fri., at 10.....Mr. Forsey.

29. Canada—Economic Problems.

Second term; Mon., Wed., Fri., at 10.....Mr. Forsey.

ENGLISH

The fundamental purpose of the course in English is to train students to deal with such problems of expression as arise in commercial life. Considerable attention will be given to business correspondence and other forms of commercial writing. The interests of students, however, are best served, even for these special purposes, by a more general training in English. These courses will, therefore, include practice in various kinds of writing, as well as a study of English literature, in which a large amount of reading is required. As far as possible, the writing prescribed for students will be related to the work they are doing in other classes.

The following is a brief outline of the work:—

FIRST YEAR

English 1. English composition, one hour a week. Weekly individual conferences with the instructor are required.

English 2. English Literature, as prescribed for students in the Faculty of Arts—a general outline course from Chaucer to Kipling. Readings and fortnightly individual conferences. Two hours a week. Professor Macmillan and an assistant.

SECOND YEAR

English Literature: Choice of Second Year Arts courses.

THIRD OR FOURTH YEAR

A choice of any General Arts courses in English in these Years.

FRENCH

The study of French will be first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which are to come later. These commercial studies will begin in the Second Year, and will comprise about half of the work done in that Year. In the Third Year work will be almost entirely of a commercial character.

The following is a synopsis of the work:—

FIRST YEAR

The student will have a choice between:—

(a) The Advanced Arts course in French and (b) the General Arts course in French, strengthened by tutorial class work.

SECOND YEAR

In this Year the work will be divided into two sections:—

I. A selected Arts course.

II. Work of a commercial nature, embracing:—

Commercial Correspondence: Letters of introduction, offers of service, inquiries, acceptance of offers, execution of orders, circulars, invoices and account sales; study of trade reports and commercial documents; study of contracts—bills of sale, mortgage deeds, bills of lading, charter-party, insurance contracts.

THIRD AND FOURTH YEARS

During these Years one hour a week will be devoted to a study of modern French literature. The remaining hours will be taken up with commercial work, which may be conveniently divided into:—

(a) Commercial correspondence, study of trade reports, etc., in continuation of work begun in the Second Year; and (b) colloquial French.

(The text-book to be used for this part will be P. Clerget, Manuel d'économie commerciale.)

GERMAN

The study of German will extend through the First and Second Years.

The Arts courses in German are available to Commercial students.

Provision will also be made for instruction in commercial correspondence.

LAW

THIRD YEAR

(1) Law of Contracts.
(2) Agency, Partnership and Company Formation.
(3) Negotiable Instruments and Banking Law.

FOURTH YEAR

(1) Company Law.
(2) Sale of Goods.
(3) Insurance Law.
(4) Trustees and Executors.
(5) Bankruptcy and Winding-up Acts.

MATHEMATICS

1. **Mathematics** (For First Year students).

Geometry and Trigonometry. Three hours, first term.
Algebra. Three hours, second term.....Professor Tate.
Text-books:—Hall, H.S., School Algebra, Parts I and II; Carslaw, H. S., Plane Trigonometry; Hall and Stevens, School Geometry, Parts I to VI.

42. **Mathematics** (For Second Year students).

Interest and Bond Values. Elementary Insurance.
Tu., Th., Sat., at 10.....Professor Tate.
Text-books:—H. Tate, Interest, Annuities and Bonds; H. Moir, Life Insurance Primer.

43. **Mathematics** (For Third and Fourth Year students).

Statistics.

Half course of 24 lectures delivered during the second term on Tu., Sat., at 11.....Professor Tate.

Text-books:—Lovitt and Holtzclaw, Statistics; Knight, Life Insurance.

The following courses in Mathematics are also open to qualified students in the School of Commerce during the Second, Third and Fourth Years:—

3. **Calculus.**

Three hours during the session; Tues., Thurs, and Sat., at 12.

4. **Algebra and Analytical Geometry.**

Three hours during the session; Mon., Wed., and Fri., at 10.
Mr. Howat.

8. **Theory of Equations and Higher Algebra.**

Three hours during the session.....Professor Sullivan.
Text-books:—Burnside and Panton, Theory of Equations; Fine, College Algebra; Milne, Higher Algebra.

9. **Finite Differences and Theory of Probability with Applications.**

Three hours during session.....Professor Tate.
Text-books:—Spurgeon, Institute of Actuaries Text-Books, II; Borel, Probability; A. Fisher, Probabilities; Henry, Calculus and Probability.

(a) Courses 8, 9 are mainly intended for students who wish to enter the Actuarial profession.

(b) Course 42 is a prerequisite for those who wish to take Third and Fourth Year Accountancy.

(c) Courses 3, 4, 8 and 42 are prerequisite for 9. First class standing in these is required before proceeding to Course 9.

PHYSICS

The course in Commercial Physics consists of two lectures and a two-hour laboratory period each week. The object of the course is to introduce the students to the various scientific laws, so as to make them familiar with the principles underlying the appliances and phenomena

of every-day life. In the laboratory the students are required to make measurements and observations under the guidance of instructors. The following headings are indicative of the nature of the course given:—

Simple machines; mechanics of liquids and gases; elasticity and strength of materials; accelerated motion; force; energy; momentum; effects of heat; heat engines; a history of the developments in magnetism and electricity; battery currents; induced currents; electric power; alternating current machines; sound production and transmission; sound phenomena; sound as related to music; lamps and reflectors; lenses and optical instruments; spectra and colour phenomena; Roentgen rays and electric waves in general.

The lectures are given by Associate Professor H. E. Reilley and the laboratory work is under the guidance of Dr. D. A. Keys, with the aid of several demonstrators.

Text-book:—Whitman's Household Physics.

SPANISH

FIRST YEAR

The work in the First Year will consist of:—

Grammar, reading and dictation, oral exercises and composition.

Text-books:—Coester's Spanish Grammar; Jiménez's "Platero y yo"; Antologia de cuentos españoles (Heath & Co.); Cool's Spanish Composition; Historia de España (Romera-Navarro ed., Heath & Co.).

SECOND YEAR

The work will, as before, consist of grammar, practice in reading and speaking, dictation and composition. At the same time the student will get a further introduction to Spanish literature.

Text-books:—España Pintoresca (Dorado); Spanish Humour in Story and Essay (Ginn & Co.); Nociones de Literatura Castellana (Romera de Terreros); Cool's Spanish Composition; Spanish Free Composition (Peers).

THIRD YEAR

More extensive work in literature. Lectures on Spanish literature in the Third and Fourth Years will be given in Spanish.

Text-books:—

(a) Moratin, El si de las niñas (Ginn & Co.); Selections from "El Quijote" (Heath & Co.); Galdos' Zaragoza; "Historia de la literatura española, "Romera-Novarro (Heath & Co.); Spanish Free Composition (Peers); Temas españoles (Crawford ed., Henry Holt & Co.).

(b) Advanced work:—

In addition to the above, Study of Spanish verse and of the following texts: Garcilaso de la Vega, First and Second Eclogues (Oxford Press); Alarcon's, La Verdad Sospechosa (Heath & Co.); Selected "romances" and sonnets.

FOURTH YEAR

A study of the modern Spanish novel:—

Text-books:—Pereda, Pedro Sánchez (Ginn & Co.); Valdés, José (Heath & Co.); Azorin, España; Blasco Ibañez, La Barraca; Romera-Navarro's "Historia de la literatura española," (Heath & Co.); Romera-Navarro's "Manual del Comercio" (Henry Holt & Co.); Spanish Composition (J. R. Elder).

Advanced work:—In addition to work prescribed above:—Marquina, En Flandes se ha puesto el Sol (Heath & Co.); Don Quijote; Spanish lyric poetry in "Siglo de oro."

TRANSPORTATION AND MARINE INSURANCE

Administration and organization of inland and ocean transportation, including the early history of transportation; meaning and importance of railroad statistics; transport and storage of commodities of a perishable and special character; transportation law; marine insurance.

Thurs., at 11.....Mr. J. L. McCulloch.

FOUR-YEAR COURSE

(For Students of the Accountancy Associations of the Province of Quebec)

INTERMEDIATE ACCOUNTING AND AUDITING

Twenty-eight lectures, of two hours each, to be given on Wednesdays, from 5.30 to 7.30 p.m., commencing October 1st, 1930.

The work will cover the matter outlined for the first two years of the regular Commerce Course, with the addition of elementary auditing and company finance. Lecturer....Professor R. R. Thompson.

MATHEMATICS

Twenty-five lectures, of 1½ hours each, to be given on Fridays, from 5.30 to 7 p.m., beginning October 3rd, 1930.

The course will cover the following subject matter:—Arithmetic and geometric progressions; indices: logarithms; permutations and combinations; binomial theorem; approximations; graphs; simple and compound interest; annuities and sinking funds.

Text-books:—Hall, H. S., School Algebra, Parts I and II; Lovitt and Holtzclaw, Statistics; H. Tate, Interest, Annuities and Bonds (Chaps. I, III, IV). Lecturer....Professor Herbert Tate.

INTERMEDIATE COMMERCIAL LAW

Forty-eight lectures, of 1½ hours each, to be given on Tuesdays and Thursdays, from 5.30 to 7 p.m., commencing October 2nd, 1930. Of these lectures, 16 will be devoted to the Law of Contracts, 16 to Negotiable Instruments, and 16 to Agency and Partnerships.

The matter covered may be outlined as follows:—

Law of Contracts.

Sphere of Dominion and Provincial laws; persons (minors, interdicts, married women); distribution of property; essentials of contract (consent, capacity, object, consideration); interpretation; effects; breach.

Negotiable Instruments and Banking.

Characteristics of negotiability; Bills of Exchange Act; form, acceptance; delivery; capacity and authority of parties; consideration; negotiation; endorsements; presentment; dishonour; protest; liabilities

of parties; discharge; lost instruments; forgeries or unauthorized signatures; alterations; bills in a set; cheques; promissory notes.

Bank Act.—Organization of a bank; rights and duies of directors and shareholders; auditors; powers of a bank re loans; security; deposits and note issue.

Agency and Partnership.

General provisions covering mandate; obligation of mandatory towards mandator, and towards third parties; obligations of the mandator towards the mandatory and towards third persons; résumé of law covering advocates, attorneys, notaries, brokers, factors, etc. termination of mandate.

General provisions relating to partnership; obligations and rights of partners amongst themselves and towards third parties; different kinds of partnership, particular partnerships, general partnerships, anonymous partnerships, and limited partnerships; dissolution of a partnership, and the effects of such dissolution.

Lecturers.....Mr. A. I. Smith and Mr. W. C. Nicholson.

FINAL ACCOUNTING AND AUDITING

This course will consist of (a) general series conprising 30 lectures of 1½ hours each, and (b) a special series comprsing 14 lectures of 1½ hours each. Mondays and Thursdays, from 5 to 7.30 p.m., beginning October 2nd, 1930.

General Series.

This portion will cover the following subject matter:—

Capital, its issue and recording in the books of a company; bonds and bond discount and premiums; auditing; current and fixed assets and liabilities; auditing; capital and revenue profits and losses; criticism of operating statements and balance sheets for successive periods; cost accounting; partnership; instalment sales; branch accounts; holding companies and subsidiaries; reorganizations, mergers and amalgamations; executorship and trustee accounts; auditing; bankruptcy.

Lecturers: Professor R. R. Thompson and Messrs. P. F. Seymour, and J. N. Buzzell.

Special Series.

This series will include special consideration of the following subjects:—

Income tax; insurance and banking; working papers; investigations; brokers' accounts, etc.

Lecturers: Messrs. G. Hunter, H. D. Clapperton, D. Young, A. A. Gowan, P. F. Seymour, and G. Currie.

MATHEMATICS

Elements of Actuarial Science.

Twenty-five lectures, of 1½ hours each, on Wednesdays, from 5.30 to 7 p.m., beginning October 1st, 1930.

The course will embrace:—

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations; the mortality table; calculation of net and gross premiums; the reserve; valuation, with allowance for initial expense; surrender value and policy loans; surplus and dividends; industrial and group insurance.

Lecturer.....Professor Herbert Tate.

Text-books:—H. Tate, Interest, Annuities and Bonds (chapters I-VII); H. Moir, Life Assurance Primer.

FINAL COMMERCIAL LAW

Forty-four lectures, of 1½ hours each, to be given on Tuesdays and Thursdays, from 5.30 to 7.00 p.m., beginning October 2nd, 1930. Of these lectures, 14 will be devoted to the Sale of Goods; 14 to Company Law; 8 to Trustees and Executors, and 8 to Bankruptcy and Winding-up.

The following outline will indicate the subject matter covered:

Sale of Goods: General provisions regarding sales; capacity to buy and sell; things which may be sold; obligations of the seller; delivery; warranty against eviction and latent defects; obligations of the buyer; dissolution and annulment of contract of sale; right of redemption; annulment on account of lesion; sales by licitation; sales by auction; bulk sales; forced sales and giving in payment.

Company Law: The Companies' Act (Dominion) and its amendments; the Quebec Companies' Act, 1920, and its amendments. (In these Acts, Part 1 is principally dealt with. The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Trustees and Executors: Provisions of the Civil Code dealing with persons administering funds belonging to others; status of married women; law applying to tutors and curators; law relating to succession.

Bankruptcy and Winding-up: Provisions of the Bankruptcy Act; the Dominion Winding-up Act; law of the Province of Quebec relating to the voluntary winding-up of companies. (The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Lecturers: Messrs. J. A. Mathewson, W. C. Nicholson, and K. A. Wilson.

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 5.30 to 6.30 p.m., beginning October 3rd, 1930.

Lecturer .....Professor J. P. Day.

The examinations in the above-mentioned subjects will be held at the end of the course, in the month of May. In order to pass, a student must obtain 60 per cent of the marks assigned to Economics and to each portion of the examinations in Commercial Law and Mathematics, and an average of 60 per cent in Accountancy and Auditing, with not less than 55 per cent in either of them. A student who fails may repeat the course and the examination in the following May on payment of the full fee. This is necessary in the case of any student who has obtained less than 40 per cent of the marks assigned. A student, however, who has obtained 40 per cent or more, but less than 60 per cent of the marks assigned, need only repeat the examination, paying therefor half of the fee.

FINAL EXAMINATION IN ACCOUNTING AND AUDITING

With regard to the Final examination in Accounting and Auditing, this will be held in the month of May of each year, before a joint board of examiners, consisting of the six mentioned on page 14, and of two members named by each of the three Associations of the Province.

The fee for this Final examination in Accountancy and Auditing is quite apart from the fee paid for the course. In the case of McGill Commerce graduates the fee for this Final examination will be $25, to be paid to the University. In the case of students of the various Associations, the fee will also be $25, to be paid into a common fund for examination expenses. This fund will belong to the Associations and be administered by them.

In order to pass in this Final examination a student must obtain 60 per cent or more of the marks assigned, with not less than 55 per cent in either of the subjects.

A student who fails may, on repayment of the examination fee, present himself again for examination in the following May. If he has obtained less than 40 per cent he must also repeat the final course in Accountancy and Auditing, paying therefor the full fee.

Candidates are permitted to proceed from the Intermediate to the Final stage, if conditioned in not more than one subject, which must not be Accountancy and Auditing. For the purposes of this regulation, Law constitutes one subject and Mathematics one subject. But no student can sit for the Final examination in Accountancy and Auditing who has not passed all his Intermediate and Final examinations in Commercial Law and Mathematics, and his examination in Political Economy.

A candidate who fails in one or more of the divisions into which the Law curriculum is divided, should bear in mind that he has only to be re-examined in the portion or portions in which he may have failed. If he obtained less than 40 per cent in any portion or portions he must repeat the lectures in those portions, paying therefor the full fee of $30.

No student will get any credit for any course, or be allowed to sit for any examination, unless he has complied with all the regulations of his Association affecting such course and examinations. Every student should, therefore, acquaint himself with the rules and by-laws of his Association.

All students taking either the Intermediate or the Final examinations must make formal application to Professor R. M. Sugars on or before April 1st. In making such application he should state when he took the lectures given in connection with each examination. His application should be accompanied by the corresponding fee, except in the case of Final Accountancy and Auditing.

SCHOOL OF COMMERCE
Lecture Time Table, 1930-1931

Hour	Year	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	1 2 3 4	Mathematics Accountancy Spanish French, 14	Economics, 21 Spanish	Mathematics Accountancy Spanish French, 14	Economics, 21 Spanish	Mathematics Accountancy Spanish French, 14	Economics 21 Spanish
10–11	1 2 3 4	Psychology, 1 Mathematics, 3 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27	Psychology, 1 Mathematics, 3 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27	Psychology, 1 Mathematics, 3 French, 13 Economics, 28, 29	Spanish Mathematics, 42 Accountancy Economics, 27
11–12	1 2 3 4	French Mathematics Economics, 22 Accountancy	History Spanish Business Organization (1st term) Mathematics, 43 (3 & 4), 2nd term	French Mathematics Economics, 22 Accountancy	History Spanish Business Organization (1st term) Mathematics, 43 (3 & 4), 2nd term Marine Insurance	French Mathematics Economics, 22 Accountancy	History Spanish Business Organization (1st term) Mathematics, 43 (3 & 4), 2nd term
12–1	1 2 3 4	Accountancy French, 12 Economics, 23 (a), 24 (b)	English Mathematics, 4	Accountancy French, 12 Economics, 23 (a), 24 (b)	English Mathematics, 4	Accountancy French, 12 Economics, 23 (a), 24 (b)	Mathematics, 4
2–3	1 2 3 4	Biology Chemistry		Biology Chemistry		Biology Lab. Chemistry	
3–4	1 2 3	Physics		Physics		Biology Lab. Physics	
4–5	1 2 3 4			Physics Lab.			
5.30–7		Accountancy (Final) 6 to 7.30 p.m.	3 and 4 Commercial Law (Inter. and Final)	Accountancy (Inter.) Actuarial Science (Inter.)	3 and 4 Commercial Law; (Inter. and Final). Accountancy (Final)	Mathematics (Inter.) Economics (Final) 5.30 to 6.30 p.m.	

FACULTY OF APPLIED SCIENCE

DEGREES, EXAMINATIONS AND SOCIETIES

1. DEGREES

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are:—"Bachelor of Architecture" (B.Arch.) and "Bachelor of Science" (B.Sc.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Science degree in one of the courses provided by the Faculty may graduate in any of the remaining courses by attending one or more subsequent sessions and passing the prescribed additional examinations.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates in Applied Science, the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Sc., in the courses of civil, electrical, mechanical and mining engineering, who are desirous of becoming Associate Members of the Institution, may under certain conditions be exempted from the examination prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyors' certificate shortened from three years to one.

(3) The McGill School of Architecture is one of the schools recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practce, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership and thereby to practice in the Province, on passing an examination in design after spending one year in the office of a member of the Association. This office experience may be gained by work during the summer vacations.

2. EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall (except in cases where they are called upon to repeat their year) be required to make good their standing by passing:—

(a) the regular supplemental examinations held immediately before the opening of the session, or

(b) the final examinations in a subsequent session, or

(c) special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

3. The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent, and an unexcused absence from a sessional examination will be regarded as a failure in this connection.

4. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. These classes must be completed and the results reported to the Faculty on or before December 1st.

5. No undergraduate will be allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects, for particulars regarding which see page 333.

3. ENGINEERING SOCIETIES

1. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, which they can do on payment of a fee of $3.00. They are then entitled to the monthly Journal of the Institute, and to the use of the Institute's rooms, 2050 Mansfield Street, and have a right to attend the weekly meetings.

Students are invited to compete for the prizes, which are offered by the Institute.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body (see page 324), is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.

ADVANCED STANDING FOR GRADUATES IN ARTS

(1) *Graduates in Arts proceeding to the Degree of Bachelor of Architecture.*

Students who have received the degree of B.A. or B.Sc. (in Arts) from McGill University may enter the Second Year in Architecture under the following conditions:—

(a) They must have passed in the following subjects in the Faculty of Arts:—Mathematics 1, 1A; Physics 1, 2; History 1.

(b) Not later than October 10th of the Third Year in Arts (two years before entering Applied Science) they must consult the Head of the School of Architecture and arrange for tuition in Architectural Drawing, Freehand Drawing and Architectural Geometry. They must report to him from time to time and give evidence of, or pass tests in, the work they are doing. These subjects will be taken either as private tuition or in the regular classes, as may be arranged.

(c) The regular school in Surveying Fieldwork must be taken for two weeks immediately following the Fourth Year in Arts, and two additional weeks of Fieldwork in the following September.

(2) *Graduates in Arts proceeding to the Degree of B.Sc. (Applied Science).*

Students who have received the degree of B.A. or B.Sc. (in Arts) from McGill University may enter the Second Year of the Engineering Course in the Faculty of Applied Science under the following conditions:—

(a) They must have passed in the following subjects in the Faculty of Arts:—Chemistry 1 and 1C; Mathematics 1, 1A, 3 and 4; Physics 1, 2 and 4.

(b) Not later than October 10th of the Third Year in Arts (two years before entering Applied Science) they must consult the Professor of Drawing and arrange for tuition in Descriptive Geometry, Freehand Drawing and Mechanical Drawing. They must report to him from time to time and pass the prescribed tests in these subjects.

(c) Similar arrangements must be made with respect to Engineering Problems, or else the regular class must be taken.

(d) The regular school in Surveying Fieldwork must be taken for two weeks immediately following the Fourth Year in Arts, and two additional weeks of Fieldwork in the following September.

COURSES OF INSTRUCTION

The instruction in this Faculty is designed to afford a thorough training of a practical as well as theoretical nature, in the following branches of Applied Science:—

I.—Architecture.
II.—Chemical Engineering.
III.—Civil Engineering.
IV.—Electrical Engineering.
V.—Mechanical Engineering.
VI.—Metallurgical Engineering.
VII.—Mining Engineering.

Details of graduate courses are stated, following the lists of subjects given by the different departments. See also the announcement of the Faculty of Graduate Studies and Research. A course is also offered in Engineering Physics, particulars of which are given on page 278.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and in no case shall be binding beyond the session covered by this calendar announcement.

Four years of study are required for a degree in any branch of Engineering, and five years for the degree in Architecture.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had at least six or eight months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Course 50, on page 289. Forms, obtainable from the Dean's Office, must be signed by the employer and returned at the opening of the session.

The work prescribed for the first two years is the same in all courses, except in that leading to the degree of Bachelor of Architecture (Course I).

The first two years of the Engineering courses (II to VII) are devoted mainly to mathematics, mechanics, physics, chemistry and drawing, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing the professional subjects.

In certain courses, students are required to attend Summer Schools following the completion of the work of the session in the First, Second, and Third Years. For details, see page 279.

The regular work of the session 1930-31 will begin on October 1st, 1930, and will end on May 29th, 1931.

I. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years. Full information is given in the Announcement of the School, which will be sent to interested persons upon request to the Registrar of the University.

An essay on an historical or theoretical subject is required in each term from all students following the historical or theoretical courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the same time affording opportunity for the acquisition of power in draughtsmanship and practice in design.

FIRST YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Algebra	Arts. 1	3	3	..	..	287
Geometry and Trigonometry	Arts. 1					
Mechanics	194	2	2	..	..	310
Physical Education	..	..	..	2/3	2/3	327
Physics	Arts. 1	2	2	..	..	287
Physics Lab	Arts. 1	..	..	1	1	287
Elements of Architecture	5	1	1	..	..	279
Architectural Geometry I	18	..	..	2	2	289
Building Construction I	23A	..	..	1	1	287
Architectural Drawing	33	..		4	4	288
Freehand Drawing	38	..	..	2	2	289
*Surveying Fieldwork	347	..	..		..	330

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 279 and 330

Any undergraduate student of the First Year in the course of Architecture who at the close of the first term has failed to obtain an average of 33 per cent in the following five subjects, viz.: mechanics, geometry, trigonometry, physics and architectural drawing, may be required to withdraw from the Faculty.

Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year in the School of Architecture who have passed their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations or in three such subjects aggregating over 300 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

SECOND YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design A	1	..	..	3	3	284
Elements of Composition	6	1	1	..	..	285
Building Construction II	24	1	1	..	..	287
Building Details	25	..	..	2	2	287
Arch. Engineering I	26	1	1	..	..	288
Arch. Eng. (Draughting) I	27	..	..	1	1	288
History of Classic Arch	14	2	2	..	..	286
Arch. Geometry II	19	..	..	1	1	289
Surveying	346	2	2	..	..	330
Mapping	348	..	..	1	1	331
Freehand Drawing	39	..	..	1	1	289
Physical Education	..	..	..	⅔	⅔	327
Summer Work	50	..	..	..	..	289
*Surveying Field Work	347	..	..	..	..	330
Architectural Essay	46	..	..	..	..	289

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 279.

All students of the Second Year in the School of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating not less than 350 possible marks, shall be required to repeat the Second Year.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design B	2	..	..	4	4	284
Theory of Design*	7	1	1	..	..	285
Arch. Engineering. II A	28	1	1	..	..	288
Arch. Eng. (Draughting), II A	29	..	..	1	1	288
History of Mediaeval or Renaissance Arch.†	15 or 16	2	2	..	..	286
Ornament and Decoration‡	9 and 10 or 11 and 12	1	1	1	1	285
Building Materials	34	1	1	..	..	288
Freehand Drawing	40	..	..	2	2	289
Architectural Drawing	35	..	..	1	1	289
Architectural Essay	47	..	..	..	..	289
Summer Work and School	50	..	..	..	..	289

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1930-31, the History of Mediaeval Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1930-31, numbers 11 and 12 will be given.

NOTE.—In the School of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of an approved character.

For summer reading, see page 280.

FOURTH YEAR

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design C	3	..	..	4	4	284
Theory of Planning*	8	1	1	..	..	285
Arch. Engineering, II B	30	1	1	..	..	288
Arch. Eng. (Draughting), II B	31	..	..	1	1	288
History of Mediaeval or Renaissance Architecture†	15 or 16	2	2	..	..	286
Ornament and Decoration‡	9 and 10 or 11 and 12	1	1	1	1	285
Architectural Drawing	36	..	..	1	1	289
Freehand Drawing	41	..	..	1	1	289
Modelling	42	..	..	1	1	289
Hygiene	22	1	..	..	..	287
Heating and Ventilation	23	..	1	..	1	287
Architectural Essay	48	..	..	..	..	289
Summer Work and School	50	..	..	..	..	289

FIFTH YEAR

Design D	4	..	..	7	7	284
Modern Architecture	17	2	2	..	..	287
Professional Practice	32	2	2	..	..	288
Engineering Law	175	1	1	..	..	307
Architectural Drawing	37	..	..	1	1	289
Modelling	43	..	..	1	1	289
Architectural Essay	49	..	..	..	..	289
Summer Work	50	..	..	..	..	289

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1930-31, the History of Mediaeval Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1930-31, numbers 11 and 12 will be given.

NOTE.—In the School of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see page 280.

ENGINEERING COURSES

The subjects of instruction in the first two years of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

FIRST YEAR

SUBJECT	No.	Lectures per week		Laboratory, etc., Hours per week		For details see pages
		First Term	Second Term	First Term	Second Term	
Chemistry and Lab.	51 & 52	2	2	3	3	290
Descriptive Geometry	341	1	1	2	2	302
Drawing—Freehand and Lettering	342, 343	1	1	2	2	302
Drawing—Mechanical	340	..	..	3	3	302
Engineering Problems	80	..	..	3	3	295
History of Science	170	1	1	..	..	307
Plane Trigonometry, Algebra, Mensuration, Mechanics	191, 192, 193, 194	6	6	3	3	310
Physics and Laboratory	311, 312	2	2	2	2	329
Physical Education	..	..	..	⅔	⅔	327
*Surveying Fieldwork	347	..	..	..	..	330
Summer Reading	132	..	..	..	..	281

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 279 and 330).

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent in the following six subjects:—chemistry, mechanics, plane trigonometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 350 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

SECOND YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., hours per week		For details see page
		First Term	Second Term	First Term	Second Term	
Chemistry	53	2	2	..	..	291
Descriptive Geometry	345	1	1	2	2	303
Engineering Reports	131	1	1	2	2	307
Mapping	348	..	..	3	3	331
Materials of Construction	81	..	..	..	..	295
Analytical Geometry	197	5	4	..	..	310
Calculus	198					
Mechanical Drawing	344	..	..	3	3	303
Mechanics	83	2	2	2	2	295
Mechanics of Machines	218	..	1	..	1	311
Physics and Lab	315-316	2	2	2	2	330
Physical Education	..	..	..	⅔	⅔	327
Surveying	346	2	2	..	..	330
Surveying Fieldwork*	347	..	..	..	..	330
Summer Essay or Reading	133	..	..	..	..	282

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examination in April (about April 30th, 1930) (see pages 279 and 331). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 279).

All students of the Second Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, shall be required to repeat the Second Year.

II. CHEMICAL ENGINEERING

The aim of this course is to prepare students for positions demanding a knowledge of both chemistry and engineering. The duties of a chemical engineer require him to be conversant with chemical processes and the installation of chemical units, and to understand the construction of buildings, the installation and operation of machinery, etc. Accordingly the course of study combines a considerable amount of engineering with the maximum of chemical training that can be attained without over-pressure.

Between the Second and Third Years, students taking this course must attend a Summer School of four weeks in the chemical laboratories.

In the Third Year specialization commences, the time being divided about equally between chemical and engineering studies and in the vacation between the Third and Fourth Years all students must give at least six weeks to work in some chemical or engineering industry or to equivalent laboratory work satisfactory to the Director of the Department of Chemistry.

In the Fourth Year the engineering studies are completed, and the chemical studies which predominate are arranged in two alternative courses, as students cannot possibly study more than a few of the very varied chemical industries. These alternative courses fall broadly under one of two headings:—*(a)* inorganic, *(b)* organic, as indicated in the table below, one or other of which the student shall select. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular course he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Director of the Department of Chemistry.

While every effort will be made to supply detailed information as to methods and plan of many of the important industries, and to provide facilities for experimentally carrying out the processes involved, the main aim will be to study the principles that underlie the application of chemistry to economical production.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 264 and 265), with additional Summer School for students entering Third Year. (See page 279.)

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Crushing Machinery	295	2	..	..	..	322
Economics	171	..	2	..	..	307
General Elem. Metall	262	2	..	..	..	317
Inorg. Quant. Anal. & Lab.	61	1	..	3	3	292
Mech. Eng. and Lab	226 and 228	2	2	1	1	312
Mineralogy	142	2	2	..	..	308
Mineral. Deter	143	..	..	2	..	309
Organic Chemistry and Lab.	56–57	3	2	..	2	291
Physical Chemistry	58	2	1	..	..	291
Strength of Materials and Lab	87–88	2	2	..	1	296
Structural Engineering	90	..	1	..	1	297
‡Summer School. Inorg. Qual. Anal. and Lab	54 and 55	..	..	..	..	291
Summer Essay or Reading	133	..	..	..	..	282

‡See page 279.

FOURTH YEAR.

Adv. Inor. Chem	72	2(a)	2(a)	..	..	294
Adv. Org. Chem. and Lab	65	2(b)	3(b)	4(b)	4(b)	292
Applied Electro-Chem	70	2	..	..	..	294
*Colloid Chemistry	75	2	2†	..	..	294
Elem. of Elec. Eng. and Lab	111–112	2	2	1	1	303
Engineering Economics	172	2	..	..	..	307
Engineering Law	175	1	1	..	..	307
Fire Assaying and Lab	273	1(a)	..	1(a)	..	319
†History of Chemistry	74	..	1	..	..	294
Hydraulics	100	1	..	½	..	2 9
Industrial Inorg. Chemistry	68	2	..	..	..	293
Industrial Organic Chem	69	..	2	..	..	293
Inorganic Laboratory	67	1(a)	..	3(a)	4(a)	293
Metallography and Lab	282	½(a)	..	½(a)	..	320
Phys. Chem. and Lab	66-66(a)	3	3	2	2	293
Summer Essay	134	..	..	..	..	253

*The hours required for laboratory work in this course will be taken from time assigned to subjects 65 or 67.

(a) Inorganic alternative. (b) Organic alternative. † Optional.

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles embodied in the study of mechanics, strength of materials, design of structures, and hydraulics, while at the same time affording an opportunity of applying these principles to practical problems ranging over as wide a portion as possible of the field covered by the practice of civil engineers. A broad and sound foundation is thus laid for future specialization, either in graduate courses or in actual practice. The outlook of the student is further broadened by courses in Mechanical and Electrical Engineering. In the Fourth Year an alternative course is provided for students looking forward to municipal engineering or city management. In the designing courses special attention is given to the interpretation and critical discussion of specifications as well as to the economical principles involved. Students are recommended to obtain as much practical experience as possible during the summer vacation, and are specially recommended to spend at least one season in a drafting office before the final year.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 264 and 265, with additional Summer School for students entering Third Year. (See page 279.)

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	307
Foundations	89	1	1	..	1	2 6
Geology, General	141	3	3	½	½	308
Highway Engineering	85	..	2	..	2	298
Hydraulics and Lab	97–98	2	..	1	..	297
†Map Projections (alt.)	351	..	..	1	..	331
Mech. Eng. and Lab	226, 228	2	2	1	1	312
Mechanics	86	2	..	..	..	2 6
Railway Eng	92–93	2	..	2	..	297
†Sanitary Science (alt.)	82	1	..	1	..	298
Strength of Mats. and Lab	87–88	2	2	..	1	296
Structural Eng	90	..	1	..	1	297
Surveying	353	2	2	..	..	331
Surveying Field Work	354	..	..	..	..	331
Summer Reading or Essay	133	..	..	..	..	282

†Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR

Elements of Elec. Eng. & Lab	111–112	2	2	1	1	303
Engineering Economics	172	2	..	..	..	307
Engineering Law	175	1	1	..	..	307
Geodesy and Lab	359, 360	2	..	1	..	331
†Geodetic Fieldwork	361	..	..	..	..	331
Strength of Materials	95	2	1	..	1	298
Theory of Structures	94	1	2	1	2	298
and either						
Bridge Design	96	2	2	2	2	299
Hydraulic Machines	99	..	2	..	..	299
Municipal Engineering	101	2	2	..	1	299
or						
Bridge Design	96a	2	2	2	1	299
Civic Administration	104	1	..	..	..	300
Waste Disposal	103	1	..	..	..	300
Water Sup. and Sewerage	102	..	3	..	2	300
Summer Essay	134	..	..	..	..	283

†See page 279.

IV. ELECTRICAL ENGINEERING

In the Third Year electrical engineering course, during the first term, the laws of electro-magnetism and of the electric circuit are developed, and the theory and operating characteristics of direct current machines are analyzed. This is followed in the second term by a study of alternating current flow in single-phase and polyphase circuits.

The Fourth Year is devoted almost entirely to electrical engineering studies.

Technical courses cover the generation, transmission and distribution of electric power, and include lectures and laboratory work on direct and alternating current phenomena, the performance and design of electrical machinery, electric lighting and the various systems of power distribution and transmission. Courses are given on central station design, electrical traction systems, hydro-electric power development, electro-chemistry, electrical measurements and communication engineering.

Visits are made to electrical works and power plants.

FIRST AND SECOND YEARS

As in other Engineering Courses. (See pages 264 and 265.)

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Calculus	201	2	..	..	..	309
Economics	171	..	2	..	..	307
Electrical Engineering	113	4	4	..	..	304
Electrical Engn. Lab.	114	..	..	4	4	304
Machine Design	225	2	2	..	..	312
Mech. Eng. and Lab.	223,226	2	2	2	1	311
Mechanics	86	2	..	..	..	296
Thermodynamics	229	2	2	..	..	312
Strength of Mats. and Lab	87, 88	2	2	..	1	2 6
Physics	318	..	2	..	..	330
Summer Reading or Essay	133	..	..	..	..	282

FOURTH YEAR.

Applied Electro-Chem	70	2	..	..	..	294
Electric Traction	121	..	2	..	..	305
Electrical Design & Problems	122	1	1	1	2	305
Electrical Engineering	117	4	4	..	..	304
Electrical Engineering Lab	118	..	..	3	3	304
Electrical Measurements & Lab.	124	2	..	1	1	305
Engineering Economics	172	2	..	..	..	307
Engineering Law	175	1	1	..	..	307
Summer Essay	134	..	..	..	..	283
and either						
Applications of Electricity	123	..	3	..	..	305
Elec. Light & Power Distr	120	2	..	..	..	304
Hydraulics & Lab	97, 98	2	..	1	..	2 7
Machine Design	243	..	2	..	..	314
or						
Applications of Electricity	123	..	3	..	..	305
Electric Light & Power Distr.	120	2	..	..	..	304
Communication Engineering	125	2	2	..	1	305
or						
Hydraulics & Lab	97, 98	2	..	1	..	297
Machine Design	243	..	2	..	..	314
Communication Engineering	125	2	2	1	..	305

V. MECHANICAL ENGINEERING

Undergraduates entering the Third Year Mechanical Engineering course may elect one of three courses; that embracing Mechanics of Machines and advanced Thermodynamics, or Calculus and advanced Strength of Materials, or Accounting and Industrial Engineering.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(a) The constructive or manufacturing side of mechanical engineering, including industrial or production engineering; *(b)* steam engineering; *(c)* gas engine and producer work; *(d)* power plant engineering; *(e)* heating and ventilation of buildings and factories; *(f)* æronautics and ærodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering as applied to questions connected with power installation and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design and works organization.

Students in the Department of Mechanical Engineering take work in electrical engineering during the Third Year.

Instruction in workshop practice is given in the Third and Fourth Years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 264 and 265), with additional Summer School for students entering Third Year. (See page 279.)

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
*Accounting (alt.)	238	1	1	⅔	⅔	313
Economics	171	..	2	..	..	307
Elements of Elect. Eng. and Lab	111–112	2	2	1	1	303
Industrial Engineering	237	2	..	..	..	313
Machine Design	225	2	2	..	..	312
Mechanical Drawing	231	..	..	2	1	313
Mechanical Eng. and Lab	227, 228	3	3	1	1	312
Mechanics	86	2	..	..	..	296
*Mechanics of Machines (alt.)	224	2	2	⅓	⅓	312
Shopwork	236	..	..	1	1	313
Strength of Mats. and Lab	87, 88	2	2	..	1	296
Structural Engineering	90	..	1	..	1	2 7
Thermodynamics	229	2	2	..	..	312
‡Summer School	233	..	..	..	..	313
*Calculus Alt.	201	2	..	..	..	311
Summer Reading or Essay	133	..	..	..	..	282

*Alternative with Mechanics of Machines (224); one or other of these subjects must be taken.

‡See page 279

Students wishing to take Industrial Engineering IV (253) must take Accounting (238).

Students taking Aero-dynamics option take Calculus 201.

FOURTH YEAR

Designing	241	..	..	1	1	314
Engineering Economics	172	2	..	..	..	307
Engineering Law	175	1	1	..	..	307
Experimental Eng	257	1	1	..	..	316
Heat. and Vent. of Buildings	247	1	1	..	..	314
Hydraulics and Lab	97, 98	2	..	1	..	297
Hydraulic Mach	99	..	2	..	..	299
**Industrial Administration	254	..	1	..	1	315
*Industrial Engineering	253	2	2	1	1	315
**Industrial Relations	258	2	..	..	..	316
Machine Design	242	2	2	..	..	314
Power Plant Design	244	1	1	1	1	314
*Mech. Eng. Lab	249	..	..	3	3	314
*Mech. Eng. Lab	249a	..	..	2	2	315
**Mech of Mach	240	2	2	⅓	⅓	313
Shopwork	252	..	..	1	1	315
*Thermodynamics	251	2	2	..	..	315
Summer Essay	134	..	..	..	..	283
***Strength of Materials	95	2	..	..	..	298

* Either courses (253) and (249a) or (251) and (249) must be taken.

** Either courses (240) or (254) and (258) must be taken.

*** Students taking Calculus (201) take Strength of Materials (95).

VI. METALLURGICAL ENGINEERING

This course is designed for students intending to enter metallurgical works, such as steel works, smelting or refining plants, foundries, rolling mills, etc., or the metallurgical inspection, testing or research departments of large engineering works.

The course of instruction provides; *(a)* a general scientific and engineering education; *(b)* more advanced work in inorganic, physical and electro-chemistry and chemical analysis, which subjects are essential for a metallurgist; *(c)* as much mechanical, electrical and hydraulic engineering as time will permit; *(d)* a course in the allied subjects of geology, ore deposits and mining; *(e)* a full course of instruction in the various branches of metallurgical engineering and the closely related subjects, mineralogy, ore-dressing and fire-assaying.

Between the Second and Third Years there is a four-weeks' Summer School in qualitative analysis in the Chemical Laboratory, beginning about the 1st of September.

In the Third Year instruction is given in economics, chemistry, physical chemistry, assaying, geology, mineralogy, mining, ore-dressing, metallurgy, and mechanical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. In this school the students pay visits to a number of metallurgical plants under the guidance of the department and officials of the plants visited, and make a careful study of the design and operation of each.

Students are expected to obtain employment in some metallurgical works during the summer before entering the Fourth Year, and must have had experience in metallurgical work before graduation. Suitable employment can usually be obtained at the end of the Field School.

In the Fourth Year instruction is given in chemistry, electro-chemistry, electrical engineering, engineering law, economics, hydraulics, metallurgy, electro-metallurgy, metallography, ore deposits and ore-dressing. Metallurgical designing and laboratory work form important parts of the course.

Laboratory accommodation is provided for graduate students who wish to do advanced work in some branch of metallurgy in preparation for the M.Sc. degree, and a Research Fellowship is available each year for some graduate student who shows marked ability for such work.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 264 and 265.). A summer School in Chemistry must be taken before the beginning of the Third Year. (See page 279.)

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	307
Fire Assaying and Lab.	263, 264	..	1	..	2	317
Geology, General	141	3	3	½	½	308
Gen. Elem. Metall. & Lab.	261	2	..	..	1	317
Inorg. Quant. Anal. and Lab.	62	1	..	3	..	2 2
Mech. Eng and Lab	226, 228	2	2	1	1	312
Metall. Calculations	265	1	1	..	..	318
Mineralogy	142	2	2	..	..	308
Mineralogy, Determinative	143	..	..	2	..	309
Mining Engineering	291	2	.	..	..	322
Ore Dressing	292	2	2	..	..	322
Physical Chemistry	58	2	..	..	..	291
Strength of Mats. and Lab	87, 88	2	2	..	1	296
Structural Engineering	90	..	1	..	1	297
‡Summer School, Inorg. Qual. Anal. and Lab	54, 55	..	..	..	..	291
Summer Reading or Essay	133	..	..	..	..	282

‡See page 279.

FOURTH YEAR

Applied Electro-Chemistry	70	2	..	..	..	294
Elem. Elec. Eng. and Lab.	111, 112	2	2	1	1	303
Electro-Metal. and Lab.	275	..	2	..	1	319
Engineering Economics	172	2	..	..	..	307
Engineering Law	175	1	1	..	..	307
General Metallurgy	271	2	2	..	..	318
Hydraulics and Lab	100	1	..	½	..	299
Industrial Chemistry, Inorg.	68	2	..	..	..	293
Inorganic Lab	67	1	..	3	..	2 3
Metallurgy, Advanced	272	2	2	..	..	319
Metallurgical Lab. and Thesis	274	..	..	..	3	319
Metallurgy Colloquium	277	..	1	..	..	319
Metal. Calcs. and Design	278	1	..	..	2	320
Metallurgical Analysis	279	..	1	..	1	320
Metallography and Lab.	280, 281	1	..	1	..	320
Ore-Dressing and Lab	300 305	2	2	1	..	323
*Metallurgical Field School	267	..	..	..	..	318
Summer Essay	134	..	..	..	..	283

*Metallurgical Field School (267) is taken at the end of the Third Year. See page 92.
For Summer Schools, see pages 279 and 318.

VII. MINING ENGINEERING

The work of the Third Year is largely in general engineering subjects such as applied mechanics, electrical engineering, mechanical engineering, geology, mineralogy and surveying, but courses of special interest to Mining Engineers are introduced in ore-dressing and elementary mining and metallurgy.

The Fourth Year, on the other hand, is very largely given up to technical work in mining, ore-dressing, economic geology and metallurgy, and includes the equivalent of nearly three full days per week in the laboratories and drafting room of the Mining Department. In the second term each student is required to prepare a thesis giving the result of an extended experimental investigation.

A Field School in mining, ore-dressing and geology is held between the Third and Fourth Years, the work ordinarily beginning immediately after the close of the April examinations. The students spend at least three months in actual mining work and during this time are visited by members of the staff and given instruction in the geology, mining, ore-dressing and metallurgy of the district. Local mines and plants are critically studied and, whenever possible, the students are taken on trips to nearby districts. As far as conditions permit, Second Year students who intend to enter the mining course will be given the benefit of participation in this summer school.

Facilities are also afforded to graduate students who wish to do advanced work in mining or ore-dressing, and the Department possesses three endowed research fellowships open to graduates who show exceptional ability. (See page 127.)

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 264 and 265), with additional Summer School for students entering Third Year. (See page 279.)

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	307
*Fire Assaying and Lab.	263, 264	..	1	..	2	317
Geology, General	141	3	3	⅓	⅓	308
Inorg. Qual. Anal. and Lab.	59, 60	1	..	2	..	291
Mech. Eng. and Lab.	226, 228	2	2	1	1	312
Gen. Element. Metall.	262	2	..	..	..	317
Mineralogy	142	2	2	..	..	308
Mineralogy, Determinative.	143	..	..	2	..	308
Mining Engineering	291	2	..	..	..	322
Ore Dressing	292, 295	2	2	..	..	322
Strength of Mats. and Lab.	87, 88	2	2	..	1	296
Structural Engineering	90	..	1	..	1	297
Surveying	352	1	1	..	..	331
†Surveying Field Work	354	..	..	..	..	331
Elect. Engineering and Lab.	111. 112	2	2	1	1	303
Summer Reading or Essay	133	..	..	..	..	282

*The lecture hour assigned to this subject is taken from the afternoon laboratory periods.

† See page 279.

FOURTH YEAR.

Mine Design	298	..	..	..	2	323
Engineering Economics	172	2	..	..	..	307
Engineering Law	175	1	1	..	..	307
Geology of Canada	149	1	..	..	..	309
Hydraulics	100	1	..	½	..	299
‡Inorg Quantitative Anal.	71	1	..	4	..	294
Metallurgy, General	271, 284	2	2	..	1	318
Metallurgical Cal.	283	1	1	..	..	320
Mining Engineering	297	3	3	..	..	323
Mining Colloquium	301	..	1	..	..	323
Practical and Field Geology	147	1	..	1	..	309
Or Deposits	148	..	4	..	..	309
Ore-Dressing	300	2	2	..	..	323
Ore-Dress., Lab. and Thesis	306	..	..	..	3	323
Petrography and Lab.	146	1	..	1	1	309
Mining Field School	294	..	..	..	..	325
Mine Mapping	293	..	..	½	..	322
Summer Fssay	134	..	..	..	..	283

‡The lecture hour assigned to this subject is taken from one of the afternoon laboratory periods.

NOTE.—Surveying Field work, between the Second and Third Years. See pages 279 and 325.

Mining Field School at end of Third Year. See page 325.

COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of mathematics and physics who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of electric corporations, in consulting work, and in University appointments. A course in Engineering Physics leading to the Degree of B.Sc. in Arts has therefore been arranged, and is open to capable students in Arts or Applied Science. A student who has completed his Second Year in the Faculty of Applied Science and has received first or second class rank in mathematics and physics may join the course in Engineering Physics, as outlined below, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

Third Year.—Mathematics 6, 7; Physics 5A, 5B, 6B (*or* 8B); Electrical Engineering 113, 114.

During the summer at the end of the Second Year, students are advised to spend three months at an approved shop, radio or research station.

Fourth Year.—Mathematics 10 *or* 11; Physics 6A, 7A, 7B, 8A and 8B (*or* 6B); Summer Thesis *or* Shop Work.

The student may now receive the degree of B.Sc. (Arts), with honours in Mathematics and Physics. In the Fifth Year the student should take selected subjects from the Fourth Year course in Electrical Engineering, as shown on page 271, and also Physics 9 and 10 and one of 11, 12, 13, 14, 17, as shown on page 208, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course therefore requires five years and may require six. During the last year (the sixth), opportunity may sometimes be afforded to act as demonstrator with a salary.

Students who have passed the courses of the first two years of the Faculty of Applied Science as stated above and have obtained the degree of B.Sc. (Arts) in Engineering Physics as outlined, may proceed in a fifth year to the degree of B.Sc. in Electrical Engineering in the Faculty of Applied Science, provided that they have completed the following courses in that Faculty:—Communication Engineering (125), [or, as alternative, Electric Light and Power Distribution (120) and Applications of Electricity (123)], together with Nos. (87), (88), (97), (98), (117), (118), (122), (223), (225), (226).

These courses may be spread over more than one session, and application to proceed to the degree in the Faculty of Applied Science should be made to the Dean not later than the end of the Third Year course in Engineering Physics so that suitable arrangements may be made.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are usually held immediately after the regular April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

Except as noted, classes are expected to begin on or about April 30th and close about May 26th.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	330	†50	289	†50	289
Chemical Engineering	347	330	*54, 55	2 1	...	...
Civil Engineering	347	330	354	331	361	331
Elect. Engineering	347	330	...	.	...	...
Mechanical Engineering	347	330	*233	313	...	...
Metallurgical Engineering	347	330	*54, 55	2 3	267	318
Mining Engineering	347	330	354	331	294	325

†This school will be held in September, 1930, and will last a little over two weeks. Particulars as to dates, etc., must be obtained from the Head of the Department.

*These Schools commence on Sept. 2nd, extend over a period of four weeks, and are held with the Special Summer Schools. See pars. (b) and (c) below

NOTE.—SPECIAL SUMMER SCHOOLS

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Applied Science

(a) Students entering the Second Year are required to attend a special Summer School in Surveying which extends from September 15th to 27th, inclusive, preceding the work of the Session. Additional work may be required in the following year, if necessary to cover the course.

(b) Students entering the Third Year of the courses in Chemical Engineering and Metallurgical Engineering are required to attend a Special Summer School in Chemistry which extends over a period of four weeks commencing Sept. 2nd.

(c) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop-work extending over a period of four weeks, commencing Sept. 2nd.

(d) Students entering the Third Year in the courses in Civil and Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying from September 15th to 27th, inclusive, and in these courses further work in Surveying, to be specified by the Head of the Department, is required for a portion of the month of May following

(e) Students entering the Third Year in the course in Electrical Engineering are required to submit evidence satisfactory to the Head of the Department, that they have been employed for a time, at least equivalent to one month of steady employment, in a first-class electrical shop during the vacation preceding their entrance into the Third Year.

(f) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Head of the Department that they have done work fully equivalent to that of the regular scheduled Summer Schools.

(g) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Head of the Department concerned, of the work which they propose to offer in place of the regular summer work.

SUMMER WORK, SUMMER ESSAYS AND SUMMER READING

Students in Engineering are required to submit to the Faculty evidence of having had at least six to eight months of experience in practical engineering work before receiving their degree. Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer and handed in at the office not later than October 10th.

A similar regulation applies to students in Architecture, who must have had from eight to ten months of practical experience before receiving their degree. This experience must include work in an architect's office.

The requirements regarding summer essays, summer reading, or other prescribed work, are given below.

GENERAL REQUIREMENTS

Essays are regarded by the Faculty as a very important part of the curriculum and a high standard will be exacted. They will be judged by their subject matter, literary style and the evidence which they show of thoughtful and careful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the Head of his Department as to the subject to be treated. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment is made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should be from 2,000 to 5,000 words in length in ordinary cases. They should be illustrated by drawings, sketches, and when desirable, by photographs, specimens, etc., and must be written on paper of substantial quality and of a size approximately 8½ x 11 inches.

All essays will become the property of the department concerned and will be filed for reference. Students are, however, permitted to submit duplicate copies of their essays to the Engineering Institute of Canada or to the Canadian Institute of Mining and Metallurgy, in competition for students' prizes offered by these Institutes.

STUDENTS IN ARCHITECTURE

During each summer vacation all students are required either to work for five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

In addition, students entering the various years are required to fulfill the following requirements:—

Second Year

Read and pass an examination on "Ancient Times"—J. H. Breasted (Ginn and Co., New York).

Third and Fourth Years

Read and pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—"A History of Everyday Things in England," Part I—Quennell (B. T. Batsford, London); "Memoirs of the Crusades" (Everyman's Library, Dent, London).

Fifth Year

Read and pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—

"Seven Lamps of Architecture," Ruskin (Everyman's Library, No. 207); "William Morris—His Work and Influence," A. Clutton Brock, No. 89, Home University Series (Williams & Norgate, London).

Examinations in Summer Reading will be held on or about the opening day of the session. Essays must be handed in at the Dean's Office not later than 5 p.m. on Friday, October 10th. Details regarding the length and form of essays are given above. The number of marks assigned to the reading course and to the essay is the same.

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must either read and pass an examination on not less than four of the following books, or submit an essay on engineering work in which they have been engaged:—

Macaulay—Essays on Hampden, Walpole, Pitt, Chatham and Hastings.
No. 225, Everyman's Library (55c).

Strachey—"Eminent Victorians."
Chatto & Windus ($2.25).

Farrand—"The Development of the United States."
Houghton Mifflin Company ($2.00).

Parkman—"LaSalle and the Discovery of the Great West."
Little, Brown & Co. (1 Vol. $2.00).

Kipling—"Captains Courageous."
Doubleday, Page & Co. ($2.00).

George Eliot—"The Mill on the Floss."
No. 325, Everyman's Library (55c).

Bennett—"Old Wives' Tales."
Hodder & Stoughton, or Doran ($2.00).

Conrad—"Typhoon," Heinemann (60c).

The essay, which should be approximately 2,000 words in length, must be illustrated and conform to the requirements for essays stated above.

Third Year

133. Students entering the Third Year must either read and pass an examination on one of the following books, or submit an essay prefereably on engineering work in which they have been engaged:—"Economic Development of Modern Europe"—Ogg ($3.50, Macmillan) or "The Nature of the World and of Man"—chapters 1-7 inclusive and 12-14 inclusive ($5.00, Macmillan).

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students in Electrical or Mechanical Engineering who elect to write an essay, but are not engaged during the summer on engineering, scientific or industrial work which would be a suitable subject for an essay, may write on one of the following subjects:—

Electrical Engineering students.—"The application of electric power to industrial establishments."

Mechanical Engineering students.—(1) Powdered fuel for power production; (2) Pulp and paper manufacture; (3) Heavy oil engines.

Students in Mining Engineering or Metallurgical Engineering who are unable to write on engineering work of which they have personal knowledge, must take the summer reading.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students in Electrical or Mechanical Engineering who are not engaged in work affording material suitable for an essay, may write on one of the following subjects:—

Electrical Engineering students.—(1) Generation of electric power; (2) Long distance power transmission; (3) Distribution of electric power; (4) Electrification of railways.

Mechanical Engineering students.—(1) Power costs; (2) Central station heating; (3) Methods of increasing production in manufacturing; (4) Exhaust steam turbines using steam at pressures below atmospheric.

Essays must conform in all respects to the requirements stated on page 54.

Examinations in Summer Reading will be held on or about the opening day of the session. Essays must be handed in at the Dean's Office not later than 5 p.m. on Friday, October 10th. The number of marks assigned to the reading course and to the essay is the same.

SUBJECTS OF INSTRUCTION

The following courses are subject to such modification during the year as the Faculty may deem advisable.

SCHOOL OF ARCHITECTURE

PROFESSORS:—{ RAMSAY TRAQUAIR (in charge of Department).
PERCY E. NOBBS (in charge of Design).

ASSISTANT PROFESSOR:—FRANK P. CHAMBERS.
SPECIAL INSTRUCTOR:—E. DYONNET.
DEMONSTRATOR:—GORDON A. NEILSON.

SPECIAL LECTURERS:—{ LESSLIE R. THOMSON.
P. J. TURNER.

A.—Design

The course in Design is divided into four classes (A, B, C and D), intended to be taken in the Second, Third, Fourth and Fifth Years respectively. Advanced or backward students may be allotted to design classes to suit their individual requirements, irrespective of their standing in other subjects, but good standing in Class D must be obtained prior to receiving the degree.

1. CLASS A. Simple problems in composition of a monumental nature, not involving difficulties of plan.
2. CLASS B. The design of domestic and small public buildings.
3. CLASS C. The design of public buildings.
4. CLASS D. Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.—Professor Nobbs.

B.—Aesthetic

The theoretical courses are intended to develop a sense of critical judgment in the student, emphasizing the fundamental principles of composition and design.

5. THE ELEMENTS OF ARCHITECTURE (24 lectures).

The five orders of Vignola, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, domes, roofs, openings, etc. —Mr. Chambers.

6. THE ELEMENTS OF ARCHITECTURE (24 lectures).

A course explanatory of the work done during the Architectural Drawing periods.—Mr. Chambers.

7. THEORY OF DESIGN (24 lectures).

(*a*) *Principles of Aesthetic:*—The history of æsthetic enquiry, perception, emotion, pleasure, pain and expression; the art impulse; beauty defined; the work of art; subject, emotional content and medium; the criteria.

(*b*) *Application of Aesthetic:*—Pure design; the function of ornament, "motif," the material treatment, the placing and classifications of ornament; the evolution of functional forms, analysis of conventional forms; the use of scale and proportion; corrections and refinements.

Students will read selected passages from the works of Santayana, Yrjö Hirn, Croce, Marshall, Geoffrey Scott, Baldwin Brown and Blomfield etc.—Professor Nobbs.

8. THEORY OF PLANNING (24 lectures).

(*a*) *Elements of Planning:*—Dimensions, arrangements, scales, aspect, prospect, light structural bay, unit planning, axial planning.

(*b*) *Domestic Planning:*—Stables, cottages, housing, residences; country houses and gardens; apartment houses.

(*c*) *Public Buildings:*—Churches, halls, theatres, schools, libraries, hospitals, baths, fire stations, municipal buildings, etc.

Note:—The examples studied are selected from current architecture. —Prof. Nobbs.

Courses 7 and 8 will be taken in alternate years until further notice.

9, 10, 11 and 12.—ORNAMENT AND DECORATION (48 lectures and 48 drafting periods extending through two years).

9. DECORATIVE HERALDRY. The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies; symbolism and significant ornament.—Professor Traquair.

Text-book:—Decorative Heraldry, Eve. *Reference:*—The Art of Heraldry, Fox Davies.

10. ORNAMENT IN FORM. The design of plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture is dealt with as the evolution of form in distinctive materials, influenced incidentally by the prevailing taste of different periods.—Prof. Traquair.

Reference Books:—Plastering. Plain and Decorative, Millar; The Art of the Plaster, Bankart; Mediæval Figure Sculpture in England, Prior.

11. Metal Work. The design of wrought and cast iron, bronze, copper, brass, pewter, silver, gold and jewellery is dealt with historically and as the result of the methods of workmanship.—Professor Traquair.

Reference Books:—English and Scottish Wrought Iron Work, Murphy; Ironwork, Starkie Gardner; Leadwork, Lethaby.

12. Color Decoration. Stained glass, mosaic of various kinds, inlays, the use of colored materials in external and internal design, mural decoration, and the analysis and construction of pattern.—Professor Traquair.

Reference Books:—Vitraux, Merson; Windows, Day.

Courses 9 and 10 and 11 and 12 will be taken in alternate years.

C.—History

14. Ancient and Classical Architecture (48 lectures).

The architecture of ancient Egypt and Mesopotamia; the Minoan civilization; architecture of the Dorian and Ionian Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome and Byzantium to the fall of the Byzantine Empire.—Professor Traquair.

Text-books:—Banister Fletcher's History of Architecture; Anderson and Spiers' Architecture of Ancient Greece; Anderson and Spiers' Architecture of Ancient Rome.

15. Mediæval Architecture (48 lectures).

The rise of the Romanesque schools, from the decline of the Western Roman Empire to the XI century; the evolution of ecclesiastical architecture in France and England to 1500 A.D.; the Gothic schools of Europe and the evolution of military and civil architecture.—Professor Traquair.

Text-book:—Power's Mediæval Architecture.

16. Renaissance Architecture (48 lectures).

The beginning of the Renaissance in Italy and its influence on architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France from Francis I. to the Revolution; the earlier and later phases of the Renaissance in England and English architecture during the XVIII century.—Professor Traquair.

Text-books:—Anderson's Italian Renaissance Architecture; W. H. Ward's French Renaissance Architecture; R. Blomfield's Short History of Renaissance Architecture in England.

17. Modern Architecture (48 lectures).

The end of the Renaissance and the classic revival in England; scholarly architecture; the "Gothic Revival"; the influence of Pugin, Ruskin and Morris; the "Arts and Crafts" movement; the eclectic schools; Shaw and the free classicists; the progress of art in Europe during the XIX century; the classic schools and "official" architecture; the neo-grec movement in France; the national revivals, the secession and art nouveau; the colonial architecture of North America, Spanish, French and English; the colonial architecture of Canada; the modern schools and the present position—Professor Traquair.

D.—Science

Mathematics—Geometry and Trigonometry, first term; Algebra, second term; to be taken in First Year Arts. Subject No. 1: For full particulars, see Arts Announcement. Mechanics (194) is taken in Applied Science. (See page 310.)

Physics and Laboratory (48 lectures and 24 laboratory periods). Arts 1.

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing the laws of energy, heat, light, electricity and sound.—Dr. Eve.

346, 347 and 348. Surveying. (Full course; 4 weeks field school, 48 lectures and 24 draughting periods, see page 330.)

22 and 23. Hygiene of Buildings. (24 lectures in first term, 12 lectures and working out of one graphical problem in second term).

22. Light and air, water, sanitary plumbing, sewage disposal. First term.—Dr. Starkey.

23. The heating and ventilation of buildings. Second term.—Professor McKergow.

E.—Construction

23a. A short course in elementary building construction and drawing is given in the First Year (24 periods with occasional lectures).—Mr. Turner.

The Second Year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The Third Year work deals with structural problems involving calculation, while in the Fourth Year problems in structural design are worked out.

24 and 25. Building Construction and Building Detail (24 lectures, 48 draughting periods).

Building materials, brickwork, masonry, carpentry, roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning, shoring, centering and forms. General working drawings are prepared, and building works in progress are visited.—Mr. Turner.

26 and 27. ARCHITECTURAL ENGINEERING I AND ARCHITECTURAL ENGINEERING (Draughting) I (24 lectures and 24 draughting periods). Graphical methods of calculating and the strength of materials employed in construction.—Professor Thomson.

28 and 29.—ARCHITECTURAL ENGINEERING II A AND ARCHITECTURAL ENGINEERING (Draughting) II A (24 lectures and 24 draughting periods).

Theory and practice of reinforced concrete; foundations and retaining walls.—Professor Thomson.

30 and 31.—ARCHITECTURAL ENGINEERING II B AND ARCHITECTURAL ENGINEERING (Draughting II B (24 lectures and 24 draughting periods).

Rivets and riveting, symmetrical and eccentric connections; the design of structural steel, with examples of floors, columns, beams, office buildings and plate girders; the theory of arch action with especial reference to examples in masonry.—Professor Thomson.

Architectural Engineering II A, with Architectural Engineering II B, with the draughting periods allotted to each, will be taken until further notice by the Third and Fourth Years together, and are given in alternate years.

34. A course on Building Materials is given in the Third Year (24 lectures).—Mr. Turner.

F.—Architectural Practice

32. PROFESSIONAL PRACTICE (24 lectures with exercises).

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreement; building by-laws; estimates; reports; professional ethics.—Mr. Turner.

175. ENGINEERING LAW (24 lectures).

Instruction is provided with the Applied Science Fourth Year classes. (See page 81.)

G.—Drawing

33. ARCHITECTURAL DRAWING I (100 periods of three and four hours). Drawings of the Classic orders, showing their application to other elements in architectural design, are prepared from the large models in the museum and from documents.—Mr. Chambers.

35, 36, 37. The buildings studied during the summer sketching class are drawn out. These periods are in direct connection with the survey of Canadian Architecture at present undertaken by the School.—Prof. Traquair.

38, 39, 40, 41. FREEHAND DRAWING (100 periods).

Drawing in pencil or charcoal from casts of architectural ornament, architectural fragments and parts of the figure.—Mr. Dyonnet.

18. ARCHITECTURAL GEOMETRY I (24 lectures and 24 periods).

Descriptive geometry; isometric and axometric projection; shades and shadows; developed surfaces and intersection of solids.—Mr. Chambers.

19. ARCHITECTURAL GEOMETRY II (24 lectures and 24 periods).

The practical application of descriptive geometry to masonry and joinery; perspective; the rendering of perspective drawings.—Mr. Chambers.

42 and 43. MODELLING (one period a week of two hours, extended over the Fourth and Fifth Years).

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of designs on which the students are engaged are also prepared, and casting is taught.—Mr. Dyonnet.

46, 47, 48, 49. An essay on an historical or theoretical subject is required each year from all students excepting those of the First Year. This essay is to be prepared during the session.

50. SUMMER WORK.

A, B & C. During the vacation following the close of the First, Second, Third and Fourth Years, the students in Architecture are required to read and be prepared to pass an examination on a selected theoretical, æsthetical, or historical architectural work. Every student must, before he receives his degree, have had at least eight to ten months' experience in an architect's or contractor's office satisfactory to the Faculty. The regulations of the Royal Institute of British architects require that a candidate for the special examination shall have had at least twelve months' experience in an architect's office and graduates in Architecture will not be admitted to this examination until they have fulfilled the requirement.

A summer school in surveying is taken in the four weeks following the final examinations of the First Year.

D. & E. A summer school in sketching and measuring is attended by all students between the Second and Third and between the Third and Fourth Years, in the latter part of September, for the study of buildings in Canada and in the United States.

For summer reading, see page 281.

DEPARTMENT OF CHEMISTRY

DIRECTOR AND PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:— ————.

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT.

PROFESSOR:—NEVIL NORTON EVANS.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

ASSISTANT PROFESSORS:—
- C. F. H. ALLEN.
- E. W. R. STEACIE.

DEMONSTRATORS:—
- W. E. BARKER.
- K. S. BUXTON.
- H. N. CAMPBELL.
- D. B. COOPER.
- G. B. GRAHAM.
- R. K. HOLCOMB.
- D. D. MACKAY.
- A. L. PEIKER.
- A. F. PRICE.
- W. R. SAWYER.
- M. G. STURROCK.

LECTURE ASSISTANT:—A. E. CANTON.

First Year Lectures.

51. GENERAL CHEMISTRY. The course includes the history, occurrence, methods of preparation and the properties of the non-metallic elements and their important compounds, with their domestic and industrial applications; classification; general laws and principles and the fundamental theories of the science; with a brief discussion of the scientific method. Two lectures a week for all Engineering students.—Professor Evans.

Text-book:—McPherson and Henderson, Introductory College Course.

First Year Laboratory.

52. General Chemistry Laboratory. Practical work designed to accompany and illustrate the lectures of Subject 51. The course includes the construction and use of ordinary apparatus, the preparation and study of important elements and compounds, qualitative analysis, and simple quantitative determinations, both gravimetric and volumetric, including combining weights, standardization of solutions, hardness of water, etc. One period a week for all students of Engineering.—Professor Evans and Demonstrators.

Second Year Lectures.

53. General Chemistry. The course is a continuation of that given in the First Year (51). It is based on the Periodic Classification of the elements and includes a study of the more important metals and their compounds, brief outlines of metallurgical processes and other industrial chemical processes, chemical equilibrium, etc. Two hours a week for all students in Engineering.—Professor Evans.

Text-book:—McPherson & Henderson, Introductory College Course.

Third Year Lectures.

54. Inorganic Qualitative Analysis. A course dealing with the principles of analytical chemistry—nature of solutions, precipitations, etc., explanatory of the work done in the laboratory (course 55). Ten lectures a week for the first three weeks of the Summer School. (See page 53.)—Professor Evans.

Text-book:—N. N. Evans, Notes on the Theory of Qualitative Analysis. *Reference:*—Stieglitz, Qualitative Chemical Analysis.

56. Organic Chemistry. (Arts 2.) A course in general elementary organic chemistry. Three lectures a week during the first term and two during the second term.

Text-book:—Clarke, Introduction to the Study of Organic Chemistry.

58. Physical Chemistry. (Arts 4.) An introductory course following the development of chemical theory.

Two lectures a week during the first term and one per week in second term.—Drs. Maass and Steacie.

Text-book:—Taylor, Theoretical and Physical Chemistry.

59. Inorganic Qualitative Analysis. A course explanatory of the work done in the laboratory. One lecture a week in the first term for Mining Engineers only.—Professor Evans.

Text-book:—N. N. Evans, Notes on the Theory of Qualitative Analysis.

61. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. A course on the general principles involved in quantitative analysis. One lecture a week during the first term and three laboratory periods a week throughout the year for Chemical Engineering students.—Dr. Johnson and Demonstrators.

62. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. A course on the general principles involved in quantitative analysis. One lecture and three laboratory periods during the first term for Metallurgical Engineering students.—Dr. Johnson and Demonstrators.

Text-book:—Lord and Demorest, Metallurgical Analysis.

Third Year Laboratory.

55. INORGANIC QUALITATIVE ANALYSIS LABORATORY.

A course of laboratory work, including preliminary experiments on known substances, the examination of unknown mixtures for base and acid radicals, methods of bringing substances into solution, and a study of the chemical reactions involved in these processes. Four weeks in the Summer School for students of the Chemical and Metallurgical Engineering courses. (See page 279.)—Professor Evans and Demonstrators.

Text-book:—W. A. Noyes, Qualitative Analysis.

57. ORGANIC CHEMISTRY LABORATORY. (Arts 2.) A course on the preparation, detection and analysis of the commoner organic compounds. Two periods a week, in the second term.—Dr. Hatcher and Demonstrators.

60. INORGANIC QUALITATIVE ANALYSIS. A course adapted to the requirements of Mining Engineers. Two periods a week in the first term.—Professor Evans and Demonstrators.

Text-book:—W. A. Noyes, Qualitative Analysis.

Fourth Year Lectures and Laboratory.

*65. ADVANCED ORGANIC CHEMISTRY AND LABORATORY. (Arts 5.)

The lectures are devoted to a description of representative classes of organic compounds, a survey of the methods available for establishing the structure and configuration of organic molecules, and a discussion of the nature of problems in organic chemistry and the manner in which they are solved. In the laboratory the methods of organic synthesis and organic analysis are studied. In special cases the laboratory

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* Courses marked with a star are open to graduates as well as undergraduates.

work may be varied to suit the needs of the student. Students who do extremely well in the laboratory are allowed to undertake simple problems in research during the second term.—Dr. Allen and Demonstrators.

The student is required during this course to take a course in gas analysis under Dr. Steacie.

*66. Physical Chemistry. (Arts 7.) Three lectures a week on general physical chemistry, including the kinetic theory, thermo chemistry, electron theory in chemistry, chemistry of radioactive substances, etc.

Students will be required to work problems dealing with the subject matter of the lectures.—Dr. Maass.

Text-book:—Nernst, Theoretical Chemistry.

*66A. Physical and Colloid Chemistry Laboratory. (Arts 7A.) Two laboratory periods a week throughout the year are devoted to typical measurements in physical and colloid chemistry.—Drs. Maass and Steacie and Demonstrators.

Text-book:—Findlay's Practical Physical Chemistry.

*67. Inorganic Laboratory. (Arts 8.) The lectures deal with the special methods of analysis of iron and steel, alloys and water. One lecture and three periods a week in the first term and four periods in the second.—Dr. Johnson and Demonstrators.

The laboratory work is a continuation of courses 61 and 62. A course in gas analysis is given in the second term, by Dr. Steacie.

For Reference:—Lord and Demorest, Quantitative Analysis; Treadwell's Quantitative Analysis; Blair, Chemical Analysis of Iron; Ibbotson, Analysis of Steel Works Materials.

68. Industrial Chemistry, Inorganic. (Arts 13.) A course, both theoretical and descriptive, on the more important inorganic chemical industries. Two lectures per week in the first term. Special lectures are given in this course by chemical engineers from outside the University. —Dr. Hibbert.

69. Industrial Chemistry, Organic. (Arts 14.) This course is given during the second half of the session, and includes the chemistry of paper and pulp, sugar, starch and glucose, soap and fats, distillation of wood and the purification of the products, etc. Two lectures per week in the second term. This course consists of special lectures by chemical engineers from the city and district who are experts in one or other of the industries, together with members of the staff.—Dr. Hibbert.

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* Courses marked with a star are open to graduates as well as undergraduates.

70. Applied Electro-Chemistry. (Arts 11.) The laws of electrolysis and of solution are studied from the standpoint of the osmotic theory. Primary and secondary batteries, electro-plating, polarization and the preparation and electro-chemical behaviour of the rarer elements used in incandescent lamps are discussed. The more important technical processes are studied and typical substances prepared in the laboratory. Two lectures in the first term.—Drs. Maass and Steacie.

For reference:—Creighton and Fink, Electrochemistry.

71. Inorganic Quantitative Analysis. A laboratory course specially designed for Mining Engineers. Four periods a week in the first term.—Dr. Johnson and Demonstrators.

Text-book:—Lord and Demorest, Metallurgical Analysis.

*72. Advanced Inorganic Chemistry. (Arts 6.) A course of lectures on inorganic chemistry, discussing the elements and their compounds in accordance with the general principles of physical chemistry. Two lectures a week throughout the session.—Dr. Johnson.

74. History of Chemistry. (Arts 9.) (Optional for Applied Science students.) A short course dealing with the development of chemistry from the historical standpoint. One lecture a week in the second term.—Dr. Hatcher.

*75. Colloid Chemistry. (Arts 15.) Two lectures per week in the first term. Two lectures a week in the second term optional. (Laboratory work, see 66A.)—Dr. Johnson.

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* Subjects marked with a star are open to graduates as well as undergraduates.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

PROFESSORS:—H. M. MACKAY. E. BROWN. R. DE L. FRENCH.

ASSISTANT PROFESSORS:—R. E. JAMIESON. G. J. DODD. F. M. WOOD.

RESEARCH FELLOW:—C. M. MORSSEN.

ASSISTANT IN CHARGE OF TESTING LABORATORY:—S. D. MACNAB.

DEMONSTRATOR:— ————————.

First Year.

80. ENGINEERING PROBLEMS. Application of mathematics and mechanics to scientific and engineering problems of a simple nature, with special attention to the formation of scientific ideas in mathematical and graphical form.

Required of all engineering students. Three hours per week.—Messrs. Dodd, Wood and Weir.

Second Year.

81. MATERIALS OF CONSTRUCTION. Manufacture and properties of cast iron; wrought iron; crucible, Bessemer and open hearth steel. Course of prescribed reading with occasional conferences.

Required of all engineering students.—Mr. Sproule.

Text-book:—Spring, Non-Technical Chats on Iron and Steel.

83. MECHANICS. The general principles of statics and of the dynamics of a particle are developed in the lectures, and numerous examples illustrating the application of mechanics to engineering problems are worked out.

The course includes equilibrium of forces; friction; force and funicular polygons; bending moment and shear; forces in framed structures; relative velocity; variable motion (straight line and curvilinear); simple harmonic motion; pendulum; springs; inertia forces in machines; crank effort curves; flywheels, etc.

The mathematical courses in calculus are taken concurrently and calculus methods are used freely. Two lectures and two hours problems per week.—Professor Brown, Mr. Jamieson and Mr. Dodd.

Reference books:—Poorman, Applied Mechanics; MacInnes, Elements of Practical Mechanics.

Third Year.

86. MECHANICS. The work of the Second Year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples are worked in detail, including problems on flywheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis, impulse, etc. The elementary principles of the gyroscope are considered. Two lectures per week, first term.—Professor Brown.

Reference books:—Worthington, Dynamics of Rotation.

87. STRENGTH OF MATERIALS. This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength, curvature, and deflection of beams; continuous beams; cantilever beams and the like; reinforced concrete beams; the strength of shafting; spiral springs; columns; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all Engineering students. Two lectures per week during the session.—Professor Brown and Mr. Jamieson.

Text-book:—Resistance of Materials, Seely.

Reference books:—Strength of Materials.—Morley; Strength of Materials.—Case.

88. STRENGTH OF MATERIALS LABORATORY. The work illustrates the principles of the lecture course in Strength of Materials (87), and includes the following:—Tension tests of various materials; stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams; torsion of shafts; experiments on spiral springs and torsional oscillations of wires; the moment of inertia of flywheels; determination of Young's modulus; tests of Portland cement; demonstrations on the large testing machines, on the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concrete, bricks, mortars, etc. Three hours per week, second term.—Professor Brown, Mr. Jamieson, Mr. Dodd, Mr. Wood and Mr. MacNab.

89. FOUNDATIONS AND MASONRY. Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages; underpinning; foundations under water, cofferdam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of costs.

Required of Civil Engineering students. One lecture per week, session; three hours problems per week, second term.—Professor MacKay, Mr. Dodd.

Text-book:—Foundations of Bridges and Buildings, Jacoby and Davis.

90. STRUCTURAL ENGINEERING. Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; estimates of quantities. Required of students in courses II, III, V, VI and VII. One lecture and three hours problems per week, second term.—Mr. Dodd.

Reference books:—Ketchum's Structural Engineer's Handbook; Ketchum's Mill Buildings; Bishop's Structural Drafting and Design of Details; Voss and Varney's Architectural Construction, Vol. Two, Book Two, "Steel Construction"; Carnegie, Pocket Companion.

92. RAILWAY ENGINEERING. A study of the various types of railway survey; in particular, location and construction surveys, and the duties of a resident engineer; the economics of railway location, including locomotive and grade problems, operating expense analysis, and the effect of distance, rise and fall, and curvature, on cost of operation; turnouts and various track problems; spirals and vertical curves. Required of Civil Engineering students. Two hours per week, first term.—Mr. Wood.

93. RAILWAY ENGINEERING. This course supplements and illustrates the work of course 92. It includes the following:—Design of turnouts and ladder tracks; compilation of field notes for spirals, compound curves, and problems of revision; calculation of earth-work quantities; location of a railway, with profile, earthwork, mass diagram, velocity profile, bill of material and cost estimate. Required of Civil Engineering students. Six hours per week, first term.—Mr. Wood.

97. HYDRAULICS. The fundamental principles of hydraulics are considered and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions. The theory of impact of jets and its application to turbines is also dealt with. Required of Civil Engineering students in the Third Year and of Mechanical and Electrical Engineering students of the Fourth Year. Two hours per week, first term.—Professor Brown.

Text-book:—Hydraulics, Schoder and Dawson (McGraw Hill).

Reference book:—Hydraulics and its Applications—Gibson (Constable).

98. HYDRAULICS LABORATORY. The course illustrates the principles considered in course 97, and is taken concurrently. The work includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi

meter, hydraulic ram, Pelton wheel, Francis and propeller turbines, centrifugal pumps, etc. Three hours per week, first term.—Professor Brown, Mr. Jamieson, Mr. Wood.

82. Sanitary Science. Basic principles of sanitation underlying the design of works for water supply, sewerage, the heating, lighting and ventilation of buildings, etc. Alternative with Map Projections 351. Four hours per week, first term.—Dr. Starkey.

85. Highway Engineering. Vehicular traffic and its requirements; methods of financing; economics of location; surveys; distance, grade and curvature; drainage; earthwork; paving materials, manufacture and use; maintenance; bridges, culverts, sidewalks and other accessories; designs and estimates. Two lectures and six hours laboratory per week, second term.—Professor French.

Text-book:—Agg's Construction of Roads and Pavements.

Fourth Year.

94. Theory of Structures. The analysis of statically determinate framed structures under fixed and moving loads; distortion of framed structures; swing spans; braced arches and arched ribs with two and three hinges; hingeless arches in concrete and reinforced concrete; frames with redundant members.

Required of Civil Engineering students. One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term.—Professor MacKay, Mr. Jamieson.

Reference books:—Johnson Bryan and Turneaure's Modern Framed Structures.

95. Strength of Materials. The course includes the following:—The bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of work applied to deflection of beams, and statically indeterminate problems; bending of curved bars, and of unsymmetrical sections; elastic strains; relation between elastic constants; strength of thick shells; earthwork theories; the design of floor and column systems for reinforced concrete buildings (including a critical study of standard specifications); footings; retaining walls, etc.

Required of Civil Engineering students. Optional in first term for Mechanical Engineering students. Two lectures per week during the first term; and one lecture and one draughting room period per week during the second term.—Professor Brown.

Reference books:—Strength of Materials, Morley; Strength of Materials, Case; Applied Elasticity, Timoshenko and Lessels; Concrete, Plain and Reinforced, Vol. II, Taylor, Thompson and Smulski, or

Reinforced Concrete Construction, Vols. II and III, Hool, or Reinforced Concrete Handbook, Hood and Johnson; Standard Specifications for Concrete and Reinforced Concrete.

96. BRIDGE DESIGN. The reasons governing the selection of a particular type of bridge; discussion of the loads to which the bridge will be subjected; calculation of the stress in the several members; determination of the sectional areas and forms of the members; design of the connections; preparation of complete drawings.

Required of students in Civil Engineering. Two lectures and six hours drafting per week.—Professor MacKay and Mr. Dodd.

Reference books:—Kirkham's Structural Engineering; Ketchum's Structural Engineer's Handbook; Waddell's Bridge Engineering.

96A. BRIDGE DESIGN. A slightly briefer course than 96. Required of students taking the Municipal alternative.—Professor MacKay and Mr. Dodd.

99. HYDRAULIC MACHINES. The course deals mainly with the development of the modern turbine and centrifugal pump and includes the following general topics:—Application of the principles of hydraulics in explanation of the functions of the various parts of the machines; development and classification of turbines; specific speed; characteristics of different types and method of interpreting results of tests on small models; essential features and mechanical details of typical turbines and pumps; principal hydraulic formulæ underlying design, etc. Two hours per week, second term.—Professor Brown.

Reference books:—Hydro-Electric Handbook, Creager and Justin; Proceedings of Engineering Societies, etc.

100. HYDRAULICS AND LABORATORY. A short course embodying the hydraulic principles outlined under courses 97 and 98 will be given in the first term. There will be one lecture per week, and six or more laboratory periods at hours to be arranged. Required of Mining, Metallurgical and Chemical Engineering students of the Fourth Year.

Text-book:—Hydraulics, King and Wisler (Wiley).

101. MUNICIPAL ENGINEERING. Fundamental principles of water supply, sewerage, sewage disposal, highway engineering and the treatment of garbage and rubbish. Required of Civil Engineering students not taking Municipal alternative. Two lectures per week, session; three hours problems per week, second term.—Professor French.

Text-books:—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

102. Water Supply and Sewerage.

(a) *Water Supply.* Quantity, quality and pressure; rainfall and evaporation; run-off; pumping machinery; storage; dams, aqueduct, distribution systems, etc.; appurtenances; purification systems; fire service; construction materials and methods; design and estimates.

(b) *Sewerage.* Quantity of sanitary sewage and of storm water; sewerage mains and appurtenances; construction methods and materials; design and estimates.

(c) *Sewage Disposal.* Characteristics of sewage; disposal by dilution; screening and sedimentation; sludge; bacterial methods; costs and results; designs and estimates. Required of students taking Municipal alternative. Three lectures and six hours problems per week in second term.—Professor French.

Text-books:—Turneaure and Russell's Public Water Supplies; Metcalfe and Eddy's Sewerage and Sewage Disposal.

103. Waste Disposal. Characteristics of civic wastes; garbage, rubbish and ashes; disposal methods, dumping, land treatment, incineration, reduction; economic aspects; designs and estimates. Required of students taking Municipal alternative. One hour per week, first term.—Professor French.

Text-book:—Herring and Greeley's Collection and Disposal of Municipal Refuse.

104. Civic Administration. This course is designed to emphasize the connection between the work of the municipal engineer and other civic activities. Such subjects as civic government and finance, education, reaction and charities and correction are discussed, as well as town planning and other engineering work of minor importance not covered in other courses. Required of students taking Municipal alternative. One hour per week, first term.—Professor French.

Text-book:—No regular text-books are prescribed, but free use is made of various Government bulletins and of current periodical literature.

Courses for the Degree of Master of Science

1. Statically Indeterminate Stresses. General methods of stress analysis, influence lines, application to braced arches, rectangular frameworks, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, two hours tutorial, and six hours computation and reports. —Mr. Jamieson.

2. TECHNICAL ELASTICITY. The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, two hours tutorial, and six hours computation and reports.

3. SECONDARY STRESSES. Secondary stresses due to rigidity of joints deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, two hours tutorial, and six hours computation and reports. —Professor MacKay.

4. REINFORCED CONCRETE ARCHES (ADVANCED). Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, one hour tutorial, and six hours computation and reports. —Professor MacKay.

5. HYDRAULICS. General principles of hydrology in relation to power development; stream gauging and use of records; flow in streams and in open channels; back-water computations; dams and spillways; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation; turbine testing and experimental work in hydraulic laboratory.

One hour tutorial and six hours computation and reports throughout the session.—Professor Brown.

6. HIGHWAY ENGINEERING. (a) Highways; history of development; finance, legislation and administration; traffic; economics of design, construction and maintenance; safety provisions. (b) Highway transportation; history; relation to other forms of transportation; economics of motor transportation; regulation; traffic control.

Session, four hours tutorial, and 12 hours computation and reports.

Professors French and McKergow and Staff. Special lectures from time to time.

DEPARTMENT OF DRAWING AND DESCRIPTIVE GEOMETRY

PROFESSOR:—HENRY F. ARMSTRONG.

DEMONSTRATORS:—L. R. MCCURDY. J. C. ELDER. ———.

This Department provides a general course in drafting office methods and a training in the groundwork necessary to prepare the student for the work required in the Engineering courses of the Third and Fourth Years. The accurate use of drawing instruments is practised and study is made of the various projection methods commonly employed. The problems in Descriptive Geometry are especially designed to develop the power of mentally picturing unseen objects and realizing details and conditions such as engineers are called upon to consider in preparing designs.

First Year.

340. MECHANICAL DRAWING. Instruction in the use of drawing instruments and materials, dimensioning, conventions and standards; preparation of working drawings and tracings of machine details and the detailing of assembly drawings; the making of drawings from dimensioned sketches. Three hours per week.—Professor Armstrong and Staff.

Text-book:—Book of Plates, obtainable at Bursar's Office.

341. DESCRIPTIVE GEOMETRY. Geometrical methods; plane figures; areas; paths of points moving in planes, etc.; orthographic projections of points, lines, plane figures and solid objects; shadows, etc.

Three hours per week.—Professor Armstrong.

Text-books:—Geometrical Drawing, by H. F. Armstrong; Descriptive Geometry, by H. F. Armstrong.

342. FREEHAND DRAWING. The object of this course is to train the eye to observe and the hand to record the essential characteristics and proportions of objects by means of sketches and diagrams of machines, etc., and to prepare dimensioned sketches from which to make scale drawings.

One hour and a half per week.—Professor Armstrong.

343. LETTERING. Types and titles such as are chiefly in use in drafting offices, including single-line, block and Roman lettering, and stencils.

One hour and a half per week.—Professor Armstrong.

Second Year.

344. MECHANICAL DRAWING. Continuation of Subject 340. Three hours per week.—Professor Armstrong and Staff.

345. DESCRIPTIVE GEOMETRY AND PERSPECTIVE. Sections of solids; intersections and developments of surfaces; intersecting planes; tangent planes; axometric, including isometric, projections; perspective projection.

Three hours per week.—Professor Armstrong.

Text-book:—Descriptive Geometry, Henry F. Armstrong.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR:—C. V. CHRISTIE.

ASSOCIATE PROFESSOR:—G. A. WALLACE.

ASSISTANT PROFESSOR:—E. G. BURR.

LECTURERS:—W. H. SCHIPPEL. F. S. HOWES.

DEMONSTRATOR:—S. A. CRAIG.

111. ELEMENTS OF ELECTRICAL ENGINEERING. For Third Year students in Mechanical and Mining Engineering and Fourth Year students in Chemical, Civil and Metallurgical Engineering.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting, power distribution and electric traction. Two hours per week.—Professor Wallace.

Text-book:—Gray's Principles and Practice of Electrical Engineering.

112. ELECTRICAL ENGINEERING LABORATORY. For Third Year students in Mechanical and Mining Engineering and Fourth Year students in Chemical, Civil and Metallurgical Engineering.

Includes tests of direct current metering and controlling devices, generators, motors, boosters, and motor-generators; experiments on variable current flow in circuits; tests of alternators, synchronous motors and converters, induction motors and transformers, etc. Three hours per week.

Third Year.

113. Electrical Engineering. The theoretical consideration of current flow in circuits; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of direct current machinery; the principles of alternating current machinery. Required of students in Electrical Engineering. Four hours per week.—Professor Christie.

Text-book:—Christie's Electrical Engineering.

114. Electrical Engineering Laboratory. Preparation of reports; construction, handling and protection of electrical apparatus; use of instruments; predetermination of the characteristics of electrical machinery; special and shop testing.

Tests are made in the laboratory on:—Current flow in circuits; metering and controlling devices, generators, motors, boosters, balancers and motor generator sets. These tests are intended to illustrate the principles of action and the limits of the proper use of the apparatus. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, six hours per week. Problems, six hours per week.

Fourth Year.

117. Electrical Engineering. The treatment of alternating current circuits by vector diagrams and vector equations; the theory and operating characteristics of alternating current machinery. Required of students in Electrical Engineering. Four hours per week.—Professor Christie.

Text-book:—Christie's Electrical Engineering.

118. Electrical Engineering Laboratory. Tests are made in the laboratory on alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, rectifiers, etc. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, nine hours per week.

120. Electric Lighting and Power Distribution. Transmission and distribution systems are taken up under the following heads:—Selection of generators, transformers, switches and auxiliary apparatus with a study of their characteristics and limitations; wiring diagrams and switchboard design; line design and construction, selection of towers, insulators and conductors, calculation of sags and spans, high voltage and transient phenomena; the protection of overhead lines, cable system

and station apparatus; industrial applications of electrical apparatus; financial considerations. This subject is required of students in Electrical Engineering. Two hours per week, first term.—Mr. Burr.

Text-book:—Standard Handbook for Electrical Engineers.

121. ELECTRIC TRACTION. Urban, interurban and main line electrification is taken up under the following heads:—Choice of system and apparatus; calculation of motor rating and car equipment; overhead and track construction; methods of control, braking and regeneration; storage batteries and boosters; generating stations and substations, distribution systems, power supply; electrolysis mitigation for electric railways.

This subject is required of students in Electrical Engineering. Two hours per week, second term.—Professor Wallace.

Text-book:—Standard Handbook for Electrical Engineers.

122. ELECTRICAL DESIGN AND PROBLEMS. The electrical design of direct and alternating current machinery. Special attention is paid to the limitations of the different types of machines and to the preparation of specifications. Required of students in Electrical Engineering. Lectures, one hour per week. Problem work, three hours per week, first term; six hours per week, second term.—Professor Christie.

Text-book:—Gray's Electrical Machine Design.

123. APPLICATIONS OF ELECTRICITY. Lectures on industrial and general applications of electric power, the electrical supply systems for industrial power and lighting; special problems of plant design; special problems of lighting in electrical systems; special problems of electrical transmission. Lectures, three hours per week, second term.—Mr. Burr.

124. ELECTRICAL MEASUREMENTS AND LABORATORY. Measurements of resistance, inductance, capacity, current, electro motive force, etc. Testing of meters, conductivity tests; iron testing, ratio and phase angle of current transformers; photometry; thermionic valve testing and other physical tests of an engineering nature. Two lectures per week, first term. One laboratory period per week, session.—Professor Wallace.

125. COMMUNICATION ENGINEERING. The fundamentals of telephony and telegraphy and of radio telephony and radio telegraphy. Two lectures per week, session. One laboratory period per week, second term. —Professor Wallace and Dr. Howes.

Courses for the Degree of Master of Science

1. Advanced Mathematics. Lectures and study under the direction of the Department of Mathematics.

Lectures, two hours.....Dr. Sullivan.

2. Electrical Physics. Lectures and study under the direction of the Department of Physics.

Lectures, two hours per week.

3. Electrotechnics.

Lectures, two hours per week.

Coloquium, two hours per week.

The thesis will be in one of the following fields of investigation:—

(a) Design, characteristics and testing of electrical machinery; investigation of special machinery; special problems of design.

(b) Properties of dielectrics and electric insulators; laboratory instruction and experimental investigation, with facilities for high voltage testing.

(c) Design, characteristics and testing of electrical engineering measuring instruments and devices. Facilities are available for precision measurements of most of the electrical quantities. Laboratory investigation of new types of measuring instruments and development of special devices.

(d) Investigation of devices for protection of electrical power systems; laboratory testing of relays and other devices; development of special types.

(e) Stability of electric power systems; stability under normal and transient conditions; determination of short-circuit currents; design of generators and excitation systems for maximum stability.

(f) Inductive co-ordination of power and signal systems.

A workshop is available for the construction of special apparatus for research work.

DEPARTMENT OF ENGLISH

Professor:—Cyrus Macmillan.

132. Summer Reading or Essay. Second Year. (See page 281.)

133. Summer Reading or Essay. Third Year. (See page 282.)

ENGINEERING REPORTS, HISTORY OF SCIENCE, ENGINEERING LAW AND ECONOMICS

PROFESSOR OF HIGHWAY AND MUNICIPAL ENGINEERING:—
R. DE L. FRENCH.

PROFESSOR OF ACCOUNTANCY:—R. R. THOMPSON.

ASSISTANT PROFESSOR OF ECONOMICS:—JOHN THOMAS CULLITON.

LECTURER IN ECONOMICS:—EUGENE FORSEY.

LECTURER IN LAW:—J. W. WELDON.

131. ENGINEERING REPORTS. One lecture and two hours' conference per week in the Second Year.—Professor French.

170. HISTORY OF SCIENCE. A course of lectures on the History of Science and the History of Engineering by various lecturers, supplemented by reading and written exercises. One hour per week in the First Year.

171. ELEMENTS OF POLITICAL ECONOMY. The lectures will deal with the production and distribution of wealth; the means by which these processes are effected; the means by which they are controlled and regulated by the state or the community; the various theories concerning their operation and regulation; their effect on society, labor and capital; theories of money and credit; prices; public finance and taxation. Two hours per week in the second term of the Third Year.—Mr. Culliton.

Book of reference:—McGibbon, Economics for Canadian Readers.

172. (a) CORPORATION FINANCE. A course of instruction in the fundamental principles of accounting and corporation finance. The following will be dealt with:—Capital and revenue receipts and expenditure; corporations; shares and bonds; fixed and current assets and liabilities; valuation; depreciation; reserves; manufacturing, construction, trading and profit and loss statements; overhead rates; estimates.—Professor R. R. Thompson.

(b) CANADIAN ECONOMIC PROBLEMS. This course is intended to familiarize engineering students with the most important economic problems of the day; the currency and banking systems; taxation; trade policy; the history of the tariff; transportation; its development and policy.—Mr. Forsey.

Two hours per week for the first term of the Fourth Year.

175. ENGINEERING LAW. This course is intended to present such an outline of the law as will be useful to engineers and business men. One hour per week in the Fourth Year.—Mr. Weldon.

DEPARTMENT OF GEOLOGY AND MINERALOGY

PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL.
PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.
PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.
ASSISTANT PROFESSORS OF GEOLOGY:—J. E. GILL. F. F. OSBORNE.
LEROY FELLOW IN BIOLOGY:—ERIC R. WYKES.

Third Year.

141. GENERAL GEOLOGY. (Arts 1.) The lectures will make a general survey of the whole field of geology.

(a) Mineralogy and Petrology.—The common rock-forming and economic minerals and more important rocks.

(b) Dynamical and Structural Geology.—The processes of vulcanism; volcanoes, geysers, etc.; disintegration of the rocks to form soils; denudation of the earth's surface under atmospheric agencies, rain, running water, glaciers, etc., and the deposition of the materials as sediments; mountain building, earthquakes, folding, faulting, metamorphism, etc.

(c) Historical Geology, including a description of the fauna and flora of the earth during the successive periods of its history, as well as the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides.

In addition to the lectures there will be excursions on Saturday mornings for five or six weeks after term opens; students attending these will be excused from any classes which conflict with the excursions.

Three hours, Mon., Wed. and Fri., at 9 and one hour laboratory per week.—Professor Clark.

Text-book:—"Textbook of Geology," Pirsson & Schuchert, 2 vols.

142. MINERALOGY. (Arts 5.) The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification. Two hours, Tu. and Th., at 9.—Professor Graham.

143. Determinative Mineralogy. (Arts 6.) Laboratory practice in blow-pipe analysis and its application to the determination of mineral species. Two laboratory periods, first term, Th. and Fri., 2 to 5.—Professor Graham.

Fourth Year.

146. Petrography. (Arts 10.) The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

One lecture, first term, Tu., at 10, and one laboratory period per week during the session.—Professors Graham and Osborne.

147. Practical and Field Geology. (Arts 7.) Study of the structure and metamorphism of the earth's crust with reference to folding, faulting, fissuring, etc., and to igneous intrusion in their bearing upon the occurrence of valuable mineral deposits; discussion of the methods employed in carrying out geological surveys for various purposes and in the construction and interpretation of geological maps and sections.

Lectures, laboratory and field mapping. First term, Th. at 11, and Sat. morning, 9–12.—Professors O'Neill and Gill.

References:—"Structural and Field Geology," by Jas. Geikie, D. Van Nostrand & Co., N.Y., 1905; "Handbook for Field Geologists," by Hayes; "Field Geology," by F. H. Lahee, McGraw Hill Book Co., N.Y., 2nd edition, 1923.

148. Ore Deposits. (Arts 8.) The nature, mode of occurrence and classification of ore deposits; typical occurrences are described and their origin discussed. The more important non-metallic minerals, *e.g.*, fuels, clays, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc.

Second term, Tu., 10 to 12, Wed. and Th., at 11.—Professor O'Neill.

References:—"Mineral Deposits," Lindgren; "Economic Aspects of Geology," Leith; "Geology of Petroleum," Emmons; "Ore Deposits of the U.S. and Canada," Kemp; Publications of the Geological Survey of U.S. and of Canada.

149. Geology of Canada. (Arts 4.) A general description of the geology and mineral resources of the Dominion. One hour, first term, Wed., at 11.—Professor O'Neill.

150. Optical Mineralogy and Crystallography. (Arts 9.) A short course of lectures for students in chemistry with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarizing microscope, axial angle apparatus, etc.—Professor Graham.

153. Field Work and Geological Mapping. Students in mining will receive instruction in field work and geological mapping during the session as a part of subject No. 147, and in the summer school of mining.—Professors O'Neill, Clark, and Gill.

DEPARTMENT OF MATHEMATICS

Professors:—C. T. Sullivan. N. B. McLean.

Associate Professor:—W. L. G. Williams.

Assistant Professors:—R. E. Jamieson. G. J. Dodd. F. M. Wood.

First Year.

191. Plane Trigonometry. Solid geometry and plane trigonometry. First term.—Messrs. Dodd and Jamieson.

Text-books:—Hall and Stevens' School Geometry, Part VI (Macmillan); Murray's Plane and Spherical Trigonometry (Longmans).

192. Algebra. Interest and annuities, theory of equations, partial fractions, graphical algebra with an introduction to analytic geometry, functions and limits. First and second terms.—Messrs. Williams and Wood.

Text-books:—Barnard and Child, A New Algebra, Vol. II. (Macmillan); Tanner and Allen, A Brief Course in Analytic Geometry (American Book Co.).

193. Mensuration. Solid mensuration and spherical trigonometry. Second term.—Messrs. Dodd and Jamieson.

Text-books:—As in Course 191.

194. Mechanics. An elementary course in dynamics, statics, and hydrostatics. First and second terms.—Messrs. Dodd and Jamieson.

Text-book:—Mimeographed notes by Mr. Jamieson.

Second Year.

197. Analytical Geometry. The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First Year (latter part of second term), and Second Year (first term). The Second Year work begins with the circle.—Messrs ———— and Williams.

Text-book:—Tanner and Allen, A Brief Course in Analytic Geometry (American Book Co.).

198. CALCULUS. Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with application to areas volumes, moments of inertia, etc. First and second terms.—Messrs. Williams and ————.

Text-book:—Murray's Differential and Integral Calculus (Longmans).

Third Year.

201. CALCULUS. Elementary differential equations. Prescribed for Electrical Engineering students of the Third Year; optional for all others. First term, two hours per week.—Dr. Sullivan.

Text-book:—Murray's Differential Equations (Longmans).

DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSORS:— C. M. MCKERGOW. A. R. ROBERTS. L. R. THOMSON.

ASSISTANT PROFESSOR:—J. A. COOTE.

LECTURERS:— R. H. PATTEN. L. R. MCCURDY.

SHOP INSTRUCTOR:—W. GATEHOUSE.

Second Year.

218. MECHANICS OF MACHINES. *Kinematics of Machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanism; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain and various wheel trains; design of involute and of cycloidal wheel-teeth. One lecture, one laboratory period in second term.—Mr. Patten.

Text-book:—Durley's Kinematics of Machines (Wiley).

Third Year.

223. MECHANICAL ENGINEERING LABORATORY. First term, course same as 228; second term, experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound, triple, or quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, steam turbines, and a complete steam power plant test. Required of students in Electrical Engineering. Six hours per week in first term and three hours per week in second term.—Mr. Patten.

Reference book:—Carpenter, Experimental Engineering.

224. MECHANICS OF MACHINES. Alternative with course (238), Accounting. Relative motion and displacement; crank effort diagrams, flywheels and inertia forces; the mechanism of the simple slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of governors; elements of engine balancing; friction and lubrication. Required of students in Mechanical Engineering. Three hours per week.—Mr. McCurdy.

Text-book:—Ewing's Steam Engine (Camb. Univ. Press).

225. MACHINE DESIGN. Principles of the strength of materials as applied to the design of the parts of machines; fastenings used in machine construction, bolts, screws, keys, cotters, rivets, and riveted joints; journals and bearings; shafts and couplings. Required of students in Mechanical and Electrical Engineering. Two hours per week. —Professor Roberts.

Text-book:—Unwin's Machine Design, Part I (Longmans). *Book of reference:*—Principles of Machine Design, R. E. McKay (Arnold).

226. MECHANICAL ENGINEERING. General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam, and steam production; corrosion and defects of boilers; boiler accessories, principles of selection and arrangement; the steam engine; estimation of power developed and economy; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants. Required of all Engineering students, except those in Mechanical Engineering. Two hours per week.—Professor McKergow.

Text-book:—MacNaughton, Steam Engines.

227. MECHANICAL ENGINEERING. Same course as 226, but more time is given to working out practical problems. Required of students in Mechanical Engineering. Three hours per week.—Prof. McKergow.

Text-book:—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. Testing and calibration of indicators, brakes and other measuring instruments; tests to determine the efficiency of belt or other transmission gearing; the properties of lubricants; the economy and performance of a team engine and boiler, of a gas engine, of an air compressor, and of a pump. Required of all Engineering students, except those taking the Electrical Engineering course. Three hours per week.—Mr. Patten.

Reference book:—Carpenter, Experimental Engineering.

229. THERMODYNAMICS. Fundamental laws and equations of thermodynamics; their application to gases and to saturated super-heated vapours; efficiency of ideal heat engines; properties of steam, and ele-

mentary theory of the steam engine; elementary theory of gas and hot-air engines. Required of Third Year students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

Text-books:—Marks and Davis, Steam Tables; Elements of Engineering Thermodynamics, Moyer, Calderwood and Potter.

Reference book:—Ewing, The Steam Engine and Other Heat Engines (Camb. Univ. Press).

231. MECHANICAL DRAWING. This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for the first term and three hours per week for second term.—Mr. McCurdy.

233. Introduction to courses Nos. 236 and 231. These courses are for four weeks in September, preceding the work of the Third Year.—Messrs. McCurdy and Gatehouse.

236. MACHINE SHOP. Lathe work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculations; taper turning and bench work. Required of students in Mechanical Engineering. Three hours per week for session.—Mr. Gatehouse.

237. INDUSTRIAL ENGINEERING. Fundamental principles, modern tendencies and problems arising therefrom, scientific management, routing, etc., personal and collective bargaining.—Two lectures per week during the first term.—Mr. Coote.

Text-book:—Industrial Organization (Kimball), third edition.

238. ACCOUNTING. Alternative with Mechanics of Machines (224). This course is designed to give students the fundamental principles of bookkeeping and accounting so that they will be in a position to deal intelligently with the books of account and the financial statements met with in engineering work, particularly in manufacturing. One hour lecture and one problem period per week.—Mr. Coote.

Text-book:—Fundamentals of Accounting, Cole.

Fourth Year.

240. MECHANICS OF MACHINES. (a) *Valve gears and governors.* Gyrostatic action in machines; further treatment of engine governors; knocking and shocks in reciprocating machinery; valve gears.—Prof. McKergow.

(b) *Aerodynamics.* The construction of an æroplane; methods of experiment in æronautics; prediction of performance from experimental data; stability and control; the theory of air screws. Three hours per week.—Professor McKergow.

Reference books:—Dalby's Balancing of Engines; Spangler's Valve Gears.

241. Designing. The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared. Required of students in Mechanical Engineering. Three hours per week.—Professor Roberts.

242. Machine Design. (a) Designs of power transmission, gearing, including belts, ropes, friction, chain and toothed gearing, fits and fitting; (b) Engine details, including cylinders, piston rods, connecting rods, shafts, fly-wheels and machine frames. Required of Mechanical Engineering students. Two hours per week.—Professor Roberts.

Text-book:—Unwin's Machine Design, Parts I and II (Longmans).

Reference book:—Elements of Machine Design, Kimball and Barr.

243. Machine Design. Course same as 242 (a). Two hours per week during the second term. Optional for Electrical Engineering students.—Professor Roberts.

244. Power Plant Design. The arrangement, design and operation of power plants worked by steam or internal combustion prime movers; requirements for lighting, heating and power distribution. One lecture hour and one drafting room period per week. Required of students in Mechanical Engineering.—Professor McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering.

247. Heating and Ventilation of Buildings. Loss of heat from buildings; radiation surfaces; design and operation of heating systems; principles of ventilation; fans and blowers; design and duct systems; temperature and humidity control. One hour per week.—Professor McKergow.

Text-book:—Allen and Walker, Heating and Ventilating.

249. Mechanical Engineering Laboratory. Experimental investigation of:—action of governors; performance of fans and blowers; performance of steam boilers, steam engines, steam turbines, refrigeration machines, condensers, gas engines and producers, efficiency of air compressing and pumping machinery; tests of a complete steam power

plant, gas power plant and a heating and ventilating system. Ten hours per week. Required of students in Mechanical Engineering.—Professor McKergow, Mr. Patten.

Reference book:—Carpenter, Experimental Engineering.

249A. MECHANICAL ENGINEERING LABORATORY. Similar to course 249. Taken by students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Two periods per week.

251. THERMODYNAMICS. Efficiency of the piston steam engine, behaviour of steam in the cylinder, influence of size, speed rate of expansion, compounding, superheating and steam-jacketing; flow of gases and vapours through orifices and nozzles and applications to the design of steam-turbines; theory and analysis of performance of internal-combustion engines; refrigerating-machine cycles. Required of students in Mechanical Engineering. Two hours per week.—Prof. Roberts.

Text-books:—Ewing's Steam Engine (Cambridge Univ. Press); Moyer, Steam Turbines (Wiley); Marks and Davis, Steam Tables and Diagrams (Longmans).

Books of reference:—Stodola, The Steam Turbine (trans. Lowenstein) (Van Nostrand); Clerk, The Gas Petrol and Oil Engine, Part I.

252. MACHINE SHOP. Experimental work and studies for the minimum times required for production, involving a consideration of the best available machine tool speeds, necessary power of belting, most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper and miller; instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week.—Mr. Gatehouse.

253. INDUSTRIAL ENGINEERING. A consideration of the economic factors that influence the location of industrial plants, such as the capacity of the market, the location of raw materials and the source of power, transportation facilities and costs, etc.; selection of local site and design of the plant; organizing and financing the company; organizing for operation and forecasting results. Two lectures and one drafting room period per week throughout the year.—Mr. Coote.

Text-book:—Walker, Management Engineering (McGraw-Hill).

254. INDUSTRIAL ADMINISTRATION. The control of industry—production, finance and sales by means of planning systems, control boards, charts, budgets, standard costs, etc. The lectures will be largely descriptive of the different control devices and the problem periods will be

devoted to their practical working out and use. One lecture and one drafting room period per week in the second term.—Mr. Coote.

257. Experimental Engineering. Theory of errors; calibration and use of instruments; measurement of power; methods of testing power-plant apparatus and the tabulation of results. Required of students in Mechanical Engineering. One hour per week.—Professor Roberts.

Text-book:—Carpenter, Experimental Engineering.

258. Industrial Relations. A study of the problems arising out of the administration of industrial enterprises on the human side; the recruiting of the labour force; introducing the worker to the factory; health and safety; job analysis and job specifications; education; wages and hours; profit-sharing, shop committees and collective bargaining. Two lectures per week in the first term.—Mr. Coote.

Text-book:—Personnel Administration by Tead and Metcalfe (McGraw-Hill).

Summer Schools—see note (c), page 279.

Courses for the Degree of Master of Science

1. Engineering Thermodynamics. Prerequisite, Course 251 (see page 315.)

Three hours colloquia.....Professor McKergow.

2. Machine Design. Prerequisites, Courses 225 and 242 (see pages 312 and 314).

Three hours colloquia.....Professor Roberts.

3. Fuel Engineering. See page 501.

DEPARTMENT OF METALLURGICAL ENGINEERING

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

LECTURER:—HAROLD J. ROAST.

SPECIAL LECTURER:—CHARLES F. PASCOE.

RESEARCH FELLOW:— ————————

Third Year.

261. ELEMENTARY METALLURGY AND LABORATORY. An introductory course in general metallurgy, including metals and alloys, fuels, furnaces, refractory materials, pyrometry and calorimetry, metallography, heat treatment and testing of metals, smelting and refining operations and a short account of the metallurgy of copper, lead, iron and steel.

The instruction consists of lectures during the first term and a short laboratory course in which the following exercises are carried out as far as time permits:—(*a*) Roasting a sulphide or arsenical ore; (*b*) formation and properties of copper or lead mattes and slags; (*c*) smelting a copper or lead ore in crucibles; (*d*) melting and casting certain metals and alloys; (*e*) the use of the electric furnace; (*f*) leaching a copper or silver ore; (*g*) elementary exercises in some of the following:—pyrometry, calorimetry, tests of refractory materials, microscopic examination of metals, heat-treatment of iron or steel, and some simple mechanical testing methods.

Two lectures a week during the first term and one laboratory period during the second term.—Mr. Sproule.

A short laboratory course in practical pyrometry is given to students taking course 8B, Theory of Heat, in the Department of Physics.

262. ELEMENTARY METALLURGY. The course of lectures as in 261, but without laboratory work, for Chemical and Mining Engineering students. Two lectures a week in first term.—Mr. Sproule.

263. FIRE-ASSAYING. The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying, the sampling and preparation of ores, the fluxes and reagents employed, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes, gold and silver bullion and base bullion, cyanide precipitates and solutions.

One lecture a week during the second term for Metallurgical and Mining students.—Mr. Sproule.

264. FIRE-ASSAYING LABORATORY. The students learn as many of the above-mentioned methods as possible in the time allowed to this

course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Students usually have an opportunity of doing additional fire-assaying in their Fourth Year.

Two laboratory periods a week during the second term, for Metallurgical and Mining students.—Mr. Sproule.

Reference books:—E. A. Smith, Sampling and Assay of the Precious Metals; E. E. Bugbee, Fire-Assaying.

265. Metallurgical Calculations. This is an introductory course on the application of exact chemical and physical laws to metallurgical operations, such as the combustion of fuel, the smelting of ores and the construction and heating of furnaces. One lecture a week during the session for Metallurgical students.—Dr. Stansfield.

Text-book:—J. W. Richards, Metallurgical Calculations, Vol. I.

267. Metallurgical Field School. This is held at the end of the Third Year. The first part consists of visits to metallurgical works in Montreal and the vicinity, supplemented by reading and lectures. The second part consists of visits to smelters, steel-works and metallurgical refineries throughout Canada. Students are required to keep notes during the school and to submit a written account of their observations at the beginning of the next term.

The Field School has been held in Pennsylvania. Nova Scotia, British Columbia and other parts of Canada, but it is usually conducted in Ontario, as this offers the greatest variety at the least cost. The only charge made is for board, lodging and railway fares, and care is taken to keep these as low as possible.

At the close of the School it is usually possible for each student to obtain suitable employment for the summer at one of the works visited, and students are strongly advised to take this means of obtaining metallurgical experience.

Fourth Year.

271. Metallurgy (General).

(*a*) The metallurgy of iron and steel.

(*b*) The metallurgy of copper, lead, gold, silver, zinc and nickel.

Two lectures a week during the session and a few laboratory demonstrations, for Metallurgical and Mining students.—Dr. Stansfield.

Text-books:—H. M. Boylston, An Introduction to the Metallurgy of Iron and Steel; W. Gowland, The Metallurgy of the Non-ferrous Metals; D. M. Liddell, Handbook of Non-ferrous Metallurgy.

272. METALLURGY (Advanced).

(*a*) General advanced metallurgy.

Text-books:—Fulton, Principles of Metallurgy; Jeffries and Archer, The Science of Metals.

(*b*) A more detailed account of the metals mentioned in 271, and of aluminum, antimony, arsenic, bismuth, cadmium, cobalt, mercury, platinum and tin.

Required of Metallurgical students. Two hours a week during the session.—Dr. Stansfield.

Reference books:—Hofman and Hayward, Metallurgy of Copper; Hofman, Metallurgy of Lead; Hofman, Metallurgy of Zinc and Cadmium; Addicks, Copper Refining; Liddell, Handbook of Non-Ferrous Metallurgy; Johnson, The Principles, Operation and Products of the Blast Furnace; Forsythe, The Blast Furnace and the Manufacture of Pig Iron.

273. FIRE-ASSAYING AND LABORATORY. A short course for Chemical Engineering students. For particulars, see 263 and 264. One laboratory period and one lecture per week in the first term.—Mr. Sproule.

274. METALLURGICAL LABORATORY AND THESIS. Three periods per week in the second term are devoted to the serious study of some metallurgical problem. The students work singly or in pairs and prepare a thesis containing an account of important published work bearing on the subject, as well as the result of their own experimental researches. Required of Metallurgical students.—Dr. Stansfield.

275. ELECTRO-METALLURGY AND LABORATORY. The course of lectures is devoted mainly to a consideration of the principles and construction of electric furnaces, and their uses for smelting and refining metals. The refining of metals and the recovery of metals from their ores by electrolysis of aqueous solutions is also considered. The laboratory work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. Two lectures a week and one laboratory period during the second term for Metallurgical students.—Dr. Stansfield.

Text-book:—Stansfield, The Electric Furnace.

277. METALLURGICAL COLLOQUIUM. One hour a week during the second term is given to informal discussion of research and other work being done in the department, and to other topics of metallurgical interest.—Dr. Stansfield.

278. METALLURGICAL CALCULATIONS AND DESIGN. The calculation of furnace charges and efficiencies, and the designing of metallurgical furnaces and plants. One lecture a week during the first term and two periods per week in the library and drafting room during the second term.—Dr. Stansfield.

279. METALLURGICAL ANALYSIS. In this course the student is enabled to acquire dexterity in the modern commercial methods of analyzing ores and ferrous and non-ferrous alloys, taking into consideration the need of speed and reasonable accuracy. Instruction is given in the essential features of the methods employed and in fitting up a works' laboratory. One lecture and one laboratory period per week during the second term.—Mr. Roast.

280. METALLOGRAPHY. A course of lectures on the fundamentals of metallography, including the heat-treatment of steel and the standardization of the common non-ferrous alloys. One lecture a week during the first term, for Metallurgical students.—Mr. Roast.

281. METALLOGRAPHIC LABORATORY. Laboratory instruction and practice in preparing and studying specimens of iron, steel, bronze, brass and babbitt metal for microscopic examination, and in the heat treatment of steel and the methods of thermal analysis. One laboratory period per week during the first term, for Metallurgical students. —Mr. Roast.

282. METALLOGRAPHY AND LABORATORY. A short course of lecture and laboratory instruction, covering the essential features of theoretical and practical metallography. One lecture and one laboratory period per week during one-half of the first term, for Chemical Engineering students.—Mr. Roast.

283. METALLURGICAL CALCULATIONS. A course resembling number 265 but adapted to the requirements of the Fourth Year Mining students. One lecture a week during the session.—Dr. Stansfield.

284. METALLURGICAL LABORATORY for Mining students. One period per week during the second term, arranged to illustrate lecture courses 262 and 271.—Dr. Stansfield and Mr. Sproule.

EXTENSION COURSES

A course of lectures and laboratory instruction in Metallography is given in the evening by Mr. Roast and Mr. Pascoe.

A course of lectures and laboratory instruction in Commercial Metallurgical Analysis is given in the evening by Mr. Roast.

Courses of lectures and laboratory instruction in General Metallurgy and in Fire-Assaying are given in the evening by Mr. Sproule.

For particulars, see Announcement of Extension Courses.

Mining and Metallurgical Society

See page 324.

Research Fellowships and Graduate Courses

One or more research fellowships are usually offered to graduate students in Metallurgical Engineering.

Courses for the Degree of Master of Science

Each student is required to follow a course of reading with lecture or tutorial instruction and laboratory work, as outlined below (Nos. 1 to 3). He must also take certain undergraduate courses, usually in the Department of Chemistry. About one-half of his time is devoted to the investigation of some particular metallurgical problem by directed reading, discussion with the Head of the Department and experimental work in the laboratory. The result of this investigation is presented in the form of a thesis.

1. General Advanced Metallurgy. A series of advanced studies of the theory and practice of metallurgy, taken from the following list:—

Physical properties and allotropic changes of metals.
Constitution and properties of metallic alloys.
Constitution and properties of slags and mattes.
Chemical equilibria, thermo-chemistry and speed of chemical reaction in metallurgical practice.
Design and efficiency of fuel-fired and electrical furnaces.
Properties, cleaning and utilization of furnace gases.
Electrolysis as applied to the refining and recovery of metals.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work. —Dr. Stansfield, Mr. Sproule and Mr. Roast.

2. The same as No. 1, but including a special study of one or more selected metals, or of some special branch of metallurgy such as electro-metallurgy or hydro-metallurgy. (Alternative with No. 1.)—Dr. Stansfield.

3. The same as No. 1, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with No. 1.)—Dr. Stansfield and Mr. Sproule.

Undergraduate subjects, Nos. 272, 275, 279, 280 and 281 (see above), are offered to students who did not take them in their undergraduate course.

Graduates in Chemical Engineering in the Inorganic Option will be allowed to specialize in Metallurgy—including two summers' work and a year of metallurgical study in the Graduate Faculty—and if successful will be given the degree of M.Sc. in Chemistry.

DEPARTMENT OF MINING ENGINEERING

PROFESSORS:—{ WILBERT G. MCBRIDE. JOHN W. BELL.

ASSISTANT PROFESSOR:—OSBURN NICHOLSON BROWN.

DOUGLAS RESEARCH FELLOW:—FRED E. WELDON.

DAWSON RESEARCH FELLOW:———————.

HARRINGTON RESEARCH FELLOW:— ———————.

Third Year.

291. MINING ENGINEERING. *The principles and practice of mining.* —Introductory, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in first term. This course is continued in the Fourth Year. (See 297.)—Professor McBride.

292. ORE DRESSING. *The theory and practice of ore dressing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the mechanical operations involved; crushing, sizing and dressing machinery—breakers, stamps, rolls, screens, jigs, vanners, tables, flotation apparatus, washers, magnetic separators, etc. Two lectures per week in the second term. This course is continued in the Fourth Year. (See 300.). —Professor Bell.

295. CRUSHING MACHINERY. This is the first half of course 292 and is taken by students in Chemical Engineering as well as by Mining and Metallurgical students. Two lectures per week in first term.—Professor Bell.

Text-books:—H. C. Hoover's Principles of Mining; Taggart's Handbook of Ore Dressing; and Peele's Mining Engineer's Handbook.

Fourth Year.

293. MINE MAPPING. The calculations and plotting of mine surveys. One afternoon per week in the first term.—Mr. Brown.

297. MINING ENGINEERING. *The principles and practice of mining.* —Prospecting, artesian and oil wells, diamond drilling, open cut mining, shaft sinking, underground development and methods of mining, timbering, hauling, hoisting, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, stores and dwellings; administration and industrial relations; examination and valuation of mines and mine reports. Three lectures a week.—Professor McBride.

298. MINING DESIGN. Practical problems in calculation of the grade and tonnage of ore bodies, methods of mining, hoisting, draining, ventilation, surface plant and equipment, metallurgical treatment and organization. Two drafting-room periods in the second term.—Professor McBride, Professor Bell.

300. ORE-DRESSING. Gold and silver milling, amalgamation, cyaniding, flotation, etc., concentration plants, coal breakers and washers, general conclusions regarding plant design and lay-out.

Two lectures a week.—Professor Bell.

301. MINING COLLOQUIUM. One hour a week in the second term is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore-dressing. Students are required to take the leading part in these exercises.

305. ORE-DRESSING LABORATORY. One morning per week in the first term is given to the ore-dressing laboratories, and certain typical operations are carried out. This course is for Metallurgical students.

306. ORE-DRESSING LABORATORY AND THESIS WORK. In the second term one whole day and one additional morning per week are given to work in the laboratory and to the preparation of a thesis to be filed in the departmental library, and, when suitable, published.

The subjects available for thesis work are very numerous, and range from purely theoretical investigation in crushing, screening, classification, concentration, flotation, etc., to the experimental determination of the best methods for the treatment of particular ores. Different lots of ore are available in sufficient quantities for work on a comparatively large scale. New ores are constantly being secured.

Text-books:—In addition to the text-books already specified for the Third Year, students are required to provide themselves with Hamilton's Manual of Cyanidation. In addition to using these formal text-books, students are required to make frequent use of the works named below:—

Hager's Oil Field Practice; Donaldson's Practical Shaft Sinking; Brinsmade's Mining Without Timber; Timbering of Metalliferous Mines, by J. F. Downey; Ketchum's Design of Mine Structures; Peele's Compressed Air Plant; Richards and Locke's Text-book of Ore-Dressing; Rickard's Sampling and Estimation of Ore in a Mine; Julian and Smart's Cyaniding Gold and Silver Ores; Megraw's Details of Cyanide Practice; Hoover's Concentrating Ores by Flotation; Prochaska's Coal Washing; The Coal and Metal Miners' Pocket-book; Mitke's Mining Methods; Young's Working of Unstratified Mineral Deposits.

Research Fellowships and Graduate Courses

Special courses of instruction are offered to graduate students in mining and ore-dressing. (See page 100.) There are three endowed Research Fellowships in the gift of the Mining Department. These are assigned to graduates of the Department who show particular aptitude for advanced work.

Laboratories

The specific laboratory instruction in mining subjects proper begins in the Third Year, with courses in assaying and elementary metallurgy. In the Fourth Year this work is elaborated, the general method of instruction being first to conduct a limited number of typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written reports. In this work he is guided by the professors and fellows, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of certain typical operations and makes at least one original investigation and at the same time gains a fair general experience of many of the important methods in use.

Illustrations, Museums, Societies, Etc.

In addition to the usual projection apparatus and a collection of over two thousand lantern slides, the Department has a standard motion picture projector and has made arrangements with the U.S. Bureau of Mines and other sources whereby several large series of mining films are available for class use. There is also a good departmental library, including selected trade catalogues, etc.

The McGill University Mining and Metallurgical Society meets at stated periods to hear and discuss papers on mining and correlated subjects given by men prominent in the industry. The Society has been made a students' section of the Canadian Institute of Mining and Metallurgy and its undergraduate members are therefore student members of the Institute, and receive its publications. Papers read before

the Mining Society or submitted as Summer Essays may be entered in competition for all students' prizes offered by the Canadian Institute of Mining and Metallurgy, or the Engineering Institute of Canada. They will not be published unless the consent of all interested persons is first secured.

Field School in Mining

294. The summer vacation field class, instituted in 1898, is now a fixed part of the course. All students in Mining in regular course are required to attend this class at the end of the Third Year.

The work will be confined to an intensive study of one or more districts with, if conditions permit, visits to nearby districts. The student will be guided by members of the staff and will be required to work in a mine or ore-dressing plant for at least two months. He will also be required to submit his notes at the beginning of the Fourth Year and an essay on some phase of the work.

Courses for the Degree of Master of Science

Undergraduate Course open to Graduate Students who have not already taken it as Undergraduates

1. Mining Engineering. Course 297. (See page 323.) The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the requirements for the M.Sc. degree for students who have not taken this course while undergraduates.—Professor McBride.

Advanced courses open to Graduate Students only

2. Works Organization and Management. With especial reference to mining, ore-dressing and smelting establishments. Two lectures per week for one term.—Professor McBride.

3. The Settling of finely divided Minerals in Water. Theories of classification and settling; the effect of temperature and of various electrolytes, colloids and flocculents; the calculation of settling rates and the design of settling tanks. Two lectures and one laboratory period for one term.—Professor Bell.

4. Classification Laboratory. Advanced students who wish to supplement course No. 3 will be given one or two laboratory periods per week for one term.—Professor Bell.

5. Filtraton in Ore-Dressing and Cyanidation. Theoretical and practical conditions governing the removal of finely divided and semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus. One lecture and one laboratory period per week for one term.—Professor Bell.

6. Filtration Laboratory. Advanced students who wish to supplement course No. 5 will be given one or two laboratory periods per week for one term.—Professor Bell.

7. The Cyanidation of Gold and Silver Ores. Advanced studies of the theory and practice of cyanidation. One lecture per week for one term.—Professor Bell.

8. Cyanidation Laboratory. Advanced students who wish to supplement course No. 7 will be given one or two laboratory periods per week for one term.—Professor Bell.

9. The Theory and Practice of Flotation. Advanced studies in flotation, surface tension, etc. Two lectures per week, for one term. —Professor Bell.

10. Flotation Laboratory. Advanced students who wish to supplement course No. 9 will be given one or two laboratory periods per week for one term.—Professor Bell.

Note.—The Department reserves the right to substitute tutorial instruction in place of set lectures when the classes are small enough to warrant the change. It is also prepared to increase the amount of work in certain of the courses when desirable.

DEPARTMENT OF PHYSICAL EDUCATION

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

ATHLETICS MANAGER:—D. S. FORBES.

TRACK COACH AND ASS'T PHYSICAL DIRECTOR:—F. M. VAN WAGNER.

ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students, and all students of other Years, coming to the University for the first time, will be required to pass a physical examination. Students of all Years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination will be announced at registration.

At the time of examination each student will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, in which case he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two hours per week will be devoted to it.*

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, providing that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, either by taking a supplemental school in September or by repeating the course in full.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

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*NOTE.—Owing to lack of accommodation this requirement is suspended for the session 1930-31.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, and for this time, only when requisitioned for by the Department. A leaflet and handbook concerning this service and the general work of the Department, together with the regulations governing athletics, will be distributed at the opening of the session.

DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:—
- H. T. BARNES.
- L. V. KING.
- A. N. SHAW.
- D. A. KEYS.

ASSOCIATE PROFESSORS:—
- H. E. REILLEY.
- J. S. FOSTER.

LECTURER IN ASTRO-PHYSICS:—A. V. DOUGLAS.

SESSIONAL LECTURERS:—
- H. G. I. WATSON.
- W. H. BARNES.

DEMONSTRATORS:—
- H. W. HARKNESS.
- N. CAM.
- F. T. DAVIES (on leave).
- E. E. WATSON.
- J. F. HEARD.
- R. J. HUNTER.
- W. H. MOORE.

INSTRUCTOR IN LABORATORY TECHNIQUE:—H. T. PYE.

First Year (Architecture).

GENERAL COURSE. (Arts No. 1.) Two hours Wednesday and Friday at 2 p.m.—Dr. Keys.

Text-book:—Kimball's College Physics (Holt).

LABORATORY COURSE. (Arts No. 1.). Two hours per week—2-4 Tuesday or 4-6 Wednesday.—Dr. Keys and demonstrators.

Text-book:—Laboratory Manuscripts (Renouf Pub. Co.).

First Year.

311. HEAT, SOUND AND LIGHT. (Arts No. 2) Two hours per week.—Dr. Shaw.

Text-book:—Duncan & Starling's Heat, Light and Sound (Macmillan).

312. LABORATORY COURSE. (Arts No. 2.) Two hours per week. See time-table of sections.—Dr. Keys and demonstrators.

Text-book:—Laboratory Manuscripts, Barnes & Wheeler (Renouf Pub. Co.).

Second Year.

315. ELECTRICITY AND MAGNETISM. (Arts 3A.) Two hours per week.—Dr. Eve.

316. LABORATORY COURSE. (Arts 3A.) Two hours per week.—Dr. Keys and demonstrators.

Text-books:—Hadley's Magnetism and Electricity for Students (1926 ed. Macmillan). Laboratory Manuscripts (Renouf Publishing Co.).

Third Year.

318. ELECTRICITY. (Arts 6C.) Elementary electron theory, molecular physics and applications. Two hours per week; second term. For students in Third Year Electrical Engineering.—Dr. Keys.

See also course in Engineering Physics, page 278; and Physics, Faculty of Arts, page 205.

DEPARTMENT OF SURVEYING AND GEODESY

ASSISTANT PROFESSORS:— A. J. KELLY. JAMES WEIR.

DEMONSTRATOR:— ————————.

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy in its application to geodesy. The course is divided as follows:—

Second Year.

346. SURVEYING. Chain and angular surveying; the construction adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular and transition curves; planimeter and pantograph; general topography; levelling; contour surveying; stadia surveying; photographic surveying; land systems of the Dominion and provinces.—Mr. Kelly.

Text-book:—Surveying, Theory and Practice, by Davis, Foote and Rayner.

347. FIELD WORK. (1) Compass and chain, compass and micrometer, and chain surveying.

(2) Differential, profile, topographic and quantity levelling.

(3) Azimuth and deflection angle traversing, accurate methods of angle measurement, and stadia surveying.

348. MAPPING. Drafting from field notes of chain and stadia surveys; plotting topographical features; tinting maps with water-colours; plotting photographic surveys.

Third Year.

351. MAP PROJECTIONS. Graphical determination of spherical triangles; spherical projections, and the construction of maps. Alternative with Sanitary Science (82).—Mr. Weir.

Text-book:—Hinks' Map Projections.

352. SURVEYING. Theory and use of instruments; hydrographic surveying; the use of the plane table; mine surveying; barometric and trigonometric levelling; elements of practical astronomy.—Mr. Kelly.

Text-book:—Surveying, Theory and Practice, by Davis, Foote and Rayner.

Reference book:—Durham's Mine Surveying.

353. SURVEYING. Theory and use of instruments; the use of the plane table; mine surveying; hydrographic surveying; barometric and trigonometric levelling; elements of geodetic surveying; elements of practical astronomy.—Mr. Weir.

Text-books:—Breed and Hosmer's Principles and Practice of Surveying, Vol. II; Hosmer's Practical Astronomy.

354. FIELD WORK. (1) The adjustments of the instruments; (2) the preliminary, topographic and location surveys for a railway, including simple, compound, transition and vertical curves, profile levelling, cross-sectioning for construction, and plotting of field notes; (3) a topographic survey with the stadia transit and plane table; (4) a hydrographic survey of a river channel, including measurement of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with engineer's transit.

Fourth Year.

359. GEODESY. The determination of time, latitude, longitude and azimuth; figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observations.—Mr. Weir.

Text-book:—Hosmer's Geodesy.

361. FIELD WORK. (1) Determination of latitude, (*a*) by transit and sextant observations of Polaris, (*b*) by zenith telescope, (*c*) by noon observations with transit and sextant; (2) determination of azimuth, (*a*) by equal altitude observations of the sun, (*b*) by observations of

Polaris, (*c*) by observation of a circumpolar star with engineer's transit, (*d*) by means of solar attachments; (3) determination of time, (*a*) by equal altitude observations of the sun with sextant and transit, (*b*) by observations of the meridian passage of stars with astronomical transit; (4) determination of longitude by clock comparison; (5) base line measurements; (6) precision levelling; (7) measurement of angles by geodetic methods.

360. GEODETIC LABORATORY. The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the Fourth Year students in the Civil Engineering course: —Measurement of (1) magnifying power, (2) eccentricity of circles, (3) inclination error in astronomical transits by nadir observations; determination of (1) gravity by means of the reversible pendulum, (2) errors of run of theodolite microscopes, (3) constants of steel tapes, (4) scale value of level vials, (5) collimation error of astronomical transits by fixed collimators and by nadir method; investigation of the error of graduation of (1) steel bars, (2) steel tapes, (3) transit circles, (4) the testing of aneroid barometers.

See also page 658.

FIELD WORK

Field work is required of all students entering the Second Year, of students entering the Third Year in the courses of Civil and Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1931 on April 28th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties and who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 279.

All students are required to keep complete field notes, and to prepare maps, sections and estimates for their own surveys. This office work is done principally during the regular summer school session.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

(1) Students proceeding to a degree shall be classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their course, or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they had failed. Conditioned Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree shall be allowed to take any subject, unless he has previously passed, or secured exemption in, all prerequisite subjects.

(3) No Conditioned Undergraduates shall be permitted to take any Third or Fourth Year work until all First or Second Year subjects respectively shall have been passed. The Faculty may, however, waive this rule in special cases on recommendation of the Committee on Registration, Standing and Promotion.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the Committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and that their courses are approved by the Comittee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

(7) Partial students are not eligible to take supplemental examinations.

(8) **No Fourth Year student shall be allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.**

PREREQUISITE AND CONCURRENT SUBJECTS*

See also paragraph (3), page 107

No.	Year	Subject	Prerequisite	Concurrent
1	II	Arch. Design A	18, 33, 38	6
2	III	" " B	1	7
3	IV	" " C	2	8
4	V	" " D	3	
5	I	Elements of Architecture		
6	II	Elements of Composition		
7	III	Theory of Design	1	
8	IV	Theory of Planning	1	
9	III or IV	Ornament and Decoration	33, 39	
10	III or IV	" " "	33, 39	
11	III or IV	" " "	33, 39	
12	III or IV	" " "	33, 39	
14	II	History of Arch. (Classic)		
15	III or IV	" " (Mediaeval)		
16	III or IV	" " (Renaissance)		
17	V	" " (Modern))		
18	I	Architectural Geometry I		
19	II	Arch. Geometry II	18	
22	IV	Hygiene of Buildings		
23	IV or V	Heating and Ventilation		
23A	I	Building Construction I		
24	II	Building Construction II		
25	II	Building Details		24
26	II	Architectural Engineering I		
27	II	Arch. Engineering I (Draughting)		26
28	III or IV	Architectural Engineering II A	26	
29	III or IV	Arch. Eng. II A (Draughting)	26	28
30	III or IV	Architectural Engineering II B	26	
31	III or IV	Arch. Eng. II B (Draughting)	26	30
32	V	Professional Practice	24	
33	I	Architectural Drawing		5
34	III	Building Materials		
35	III	Architectural Drawing		
36	IV	" "		
37	V	" "		
38	I	Freehand Drawing		
39	II	" "		
40	III	" "	38	
41	IV	" "	39	
42	IV	Modelling	40	
43	V	"	42	
Arts 1	I	Algebra		
" 1	I	Geometry and Trigonometry		
46	II	Architectural Essay		
47	III	" "		
48	IV	" "		
49	V	" "		
50	II, III, IV & V	Summer Work		
51	I	General Chemistry		
52	I	" Lab.		52
53	II	General Chemistry		51
54	III	Inorg. Qual. Anal.—Summer School (Chem. Eng. and Met. Eng. Students)	51, 52, 311, 312	
55	III	Inorg. Qual. Anal. Lab.—Summer School (Chem. Eng. and Met. Eng. Students)	51, 52	55
			51, 52	54

*Prerequisite subjects are those which, in the opinion of the Faculty, must be mastered before the subjects to which they are prerequisite can be intelligently studied.
Concurrent subjects are related subjects which should be studied in the same session.

No.	Year	SUBJECT	Prerequisite	Concurrent
56	III	Organic Chemistry	53	57
57	III	" " Lab.		56
58	III	Physical Chemistry	53	
59	III	Inorg. Qual. Anal.	53	60
60	III	" " " Lab.		59
61	III	Inorg. Quant. Anal. and Lab. (Chem. Eng)	53	
62	III	" " " " " (Met. Eng.)	53	
65	IV	Advanced Organic Chem. and Laboratory	56, 57	
66	IV	Physical Chem. and Lab	58	
67	IV	Inorg. Lab	61, 62	
68	IV	Industrial Chemistry, Inorganic	61, 62	
69	IV	Industrial Chemistry, Organic	56, 57	
70	IV	Applied Electro-Chem	53	
71	IV	Inorg. Quant. Anal. (Mining Students)	59, 60	
72	IV	Adv. Inorg. Chemistry	58	
74	IV	History of Chemistry	53, 56	
75	IV	Colloid Chemistry	56, 57,58,59,60	
80	I	Engineering Problems		
81	II	Materials of Construction		
82	III	Sanitary Science		
83	II	Mechanics	194	198
85	III	Highway Engineering		
86	III	Mechanics	83, 198	
87	III	Strength of Materials	83, 198	
88	III	" " Lab.		87
89	III	Foundations		87
90	III	Structural Engineering		87
92	III	Railway Engineering	83,346,347,348	
93	III	" "	83,346,347,348	92
94	IV	Theory of Structures	87	
95	IV	Strength of Materials	87	
96	IV	Bridge Design	90	94
96a	IV	" "	90	94
97	III & IV	Hydraulics	83	
98	III & IV	" Lab.		97
99	IV	" Machines		97
100	IV	Hydraulics and Lab. (Short Course)	83	
101	IV	Municipal Engineering	97, 98	
102	IV	Water Supply & Sewerage	82, 97, 98	
103	IV	Waste Disposal		
104	IV	Civic Administration		
111	III & IV	Elements of Elec. Eng.	198, 315,	
112	III & IV	Elec. Eng. Lab. (Elementary)		111
113	III	Electrical Engineering	198, 315	
114	III	Elec. Engineering Lab		113
117	IV	Electrical Engineering	113, 114, 201	
118	IV	Elec. Eng. Lab. (Elec. Eng. Students)	113, 114	117
120	IV	Elec. Light and Power Distribution		
121	IV	Electric Traction		117
122	IV	Electrical Designing	113	117
123	IV	Applications of Electricity	113	117
124	IV	Elec. Measurements and Lab.	113	
125	IV	Communication Engineering	201, 113	
131	II	Engineering Reports		
132	II	Summer Reading		
133	III	Summer Reading or Essay		
134	IV	Summer Essay		
141	III	Geology, General		
142	III	Mineralogy	53	
143	III	Mineralogy, Determinative	53	
146	IV	Petrography and Lab	141	
147	IV	Practical and Field Geology	141	

No.	Year	Subject	Prerequisite	Concurrent
148	IV	Ore Deposits	141	147
149	IV	Geology of Canada	141	
153	IV	Geology Fieldwork (with 294)	141, 142, 143	
170	I	History of Science		
171	III	Elements of Political Economy		
172	IV	Canadian Economic Problems	171	
175	IV	Engineering Law		
191	I	Plane Trigonometry		
192	I	Algebra		
193	I	Mensuration		
194	I	Mechanics		
197	II	Analytic Geometry		
198	II	Calculus	192	
201	III	Calculus	198	
218	II	Mechanics of Machines	191, 192, 194	
223	III	Mech. Eng. Lab. (Elec. Eng. Students)		226
224	III	Mechanics of Machines	83, 218	
225	III	Machine Design		87, 231
226	III	Mech. Eng. (General Course)		228
227	III	" " (Mech. Eng. Students)		228
228	III	" " Lab		226, 227
229	III	Thermodynamics	198	
231	III	Mech. Drawing (Mech. Eng. Stud.)		225
233	III	Summer School (Mech. Eng. Students)		
236	III	Machine Shop Work		
237	III	Industrial Engineering		
238	III	Accounting		
240	IV	Mechanics of Machines	224	
241	IV	Designing	225, 231	242
242	IV	Mach. Design (Mech. Students)	225	
243	IV	Mach. Design (Elec. Students)	225	
244	IV	Power Plant Design	227	
247	IV	Heat. and Ventilation of Buildings	227	244
249	IV	Mech. Eng. Lab	227, 228	
249a	IV	Mech. Eng. Lab. (alt.)	227, 228	
251	IV	Thermodynamics	228, 229	
252	IV	Machine Shop Work	236	
253	IV	Industrial Engineering	238	
254	IV	Industrial Administration		252
257	IV	Experimental Engineering	227, 228	249
258	IV	Industrial Relations		
261	III	Elem. Metallurgy and Laboratory		
262	III	Elem. Metal. (Chem. & Mining Eng. Students)		
263	III	Fire Assaying		264
264	III	Fire Assaying Laboratory		263
265	III	Metall. Calculations		261
267	IV	Metall. Field School		
271	IV	Metallurgy (General)	261 or 262	
272	IV	" (Advanced)	261 or 262	271
273	IV	Fire Assay. & Lab. (Chem. Eng. Stud.)	262	
274	IV	Metall. Lab. and Thesis	261	271
275	IV	Electro-Metallurgy and Lab	261 or 262	271
277	IV	Metall. Colloquium	261	271
278	IV	Metall. Calculations and Design	265	272
279	IV	Metall. Analysis	61, 62	67
280	IV	Metallography		
281	IV	Metallographic Lab		
282	IV	Metallog. & Lab. (Chem. Eng. Students)		
283	IV	Metall. Calc. Mining Students	262	271
284	IV	" Lab. " "	262	271
291	III	Mining Engineering		
292	III	Ore Dressing		142, 226

No.	Year	SUBJECT	Prerequisite	Concurrent
293	IV	Mine Mapping		
294	III	Mining Field School	141	
295	III	Crushing and Grinding Machinery		226
297	IV	Mining Engineering	226, 291	
298	IV	Mining Design	81, 226	297, 300
300	IV	Ore Dressing and Milling	292	
301	IV	Mining Colloquium		297, 300
305	IV	Ore Dressing Laboratory	292	300
306	IV	Ore Dressing Lab. (Thesis Work)	264, 305	
311	I	Physics		
312	I	Physical Laboratory		311
315	II	Physics	311	
316	II	Physical Laboratory	311	315
318	III	Physics	315	
340	I	Mechanical Drawing		
341	I	Descriptive Geometry		
342	I	Freehand Drawing		
343	I	Lettering		
344	II	Mechanical Drawing	340	
345	II	Descriptive Geom. and Perspective	341	
346	II	Surveyng	191 or Arts 1	
347	II	Surveyng Fieldwork		
348	II	Mapping		
351	III	Map Projections		
352	III	Surveyng (Miners)	346, 347	
353	III	Surveyng (Civils)	346, 347	
354	III	Surveyng Fieldwork	346, 347	
359	IV	Geodesy	353	
360	IV	Geodetic Laboratory		359
361	IV V	Geodetic Fieldwork	353, 354	

CONVERSE OF PREREQUISITE SUBJECTS

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
1	II	Arch. Design A	
2	III	" " B	2, 7, 8
3	IV	" " C	3
4	V	" " D	4
5	I	Elements of Architecture	
6	II	Elements of Composition	
7	III	Theory of Design	
8	IV	Theory of Planning	
9	III or IV	Ornament and Decoration	
10	III or IV	" "	
11	III or IV	" "	
12	III or IV	" "	
14	II	History of Arch. (Classic)	
15	III or IV	" " (Mediaeval)	
16	III or IV	" " (Renaissance)	
17	V	" " (Modern)	
18	I	Architectural Geometry I	19
19	III	Architectural Geometry II	1
22	IV	Hygiene of Buildings	
23	IV or V	Heating and Ventilation	
23A	I	Building Construction I	
24	II	Building Construction	32
25	II	Building Details	
26	II	Architectural Eng. I	28, 29, 30, 31
27	II	Architectural Eng. I (Drafting)	
28	III or IV	Architectural Eng. II A	
29	III or IV	Architectural Eng. II A (Drafting)	
30	III or IV	Architectural Eng. II B	
31	III or IV	Architectural Eng. II B (Drafting)	
32	V	Professional Practice	
33	I	Architectural Drawing	1, 9, 10, 11, 12.
34	III	Building Materials	
35	III	Architectural Drawing	
36	IV	" "	
37	V	" "	
38	I	Freehand Drawing	1, 39
39	II	" "	9, 10, 11, 12, 40
40	III	" "	41
41	IV	" "	
42	IV	Modelling	43
43	V	"	
46	II	Arch Essay	
47	III	" "	
48	IV	" "	
49	V	" "	
50	II III IV & V	Summer Work	
Arts	I	Algebra	
Arts I	I	Geometry and Trigonometry	346
51	I	General Chemistry	53, 54, 55
52	I	" " Lab.	53, 54, 55
53	II	General Chemistry	56, 58, 59, 61. 62. 70, 74, 142, 143,
54	III	Inorg. Qual. Anal. (Summer Sch.) (Chem. Eng. and Met. Eng.)	
55	III	Inorg. Qual. Anal. Lab. (Summer Sch.) (Chem. Eng. and Met. Eng.)	
56	III	Org. Chemistry	65, 69, 74, 75
57	III	" " Lab	65, 69, 75
58	III	Physical Chem	66. 72, 75
59	III	Inorg. Qual. Anal	71, 75
60	III	" " " Lab	71, 75
61	III	" Quant. Anal	67, 68, 279

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
62 to 64	III	Inorg. Quant. Anal. Lab.	67, 68, 279
75	IV	Year Subjects	
80	I	Engineering Problems	
81	II	Mat. of Constrn	298
82	III	Sanitary Science	102
83	II	Mechanics	86, 87, 92, 97, 100, 224
85	III	Highway Engineering	
86	III	Mechanics	
87	III	Str. of Materials	94, 95
88	III	" " Lab.	
89	III	Foundations	
90	III	Structural Engineering	96, 96A
92	III	Railway Engineering	
93	III	" "	
94 to 96	IV	Year Subjects	
97	III & IV	Hydraulics	101, 102
98	III & IV	" Lab.	101, 102
99 to 104	IV	Year Subjects	
111	III & IV	Elem. Elec. Eng.	
113	III	Elec. Eng.	117, 118, 122, 123, 124, 125
114	III	Elec. Eng. Lab.	117, 118
117 to 125	IV	Year Subjects	
132	II	English Summer Reading	
133	III	Summer Reading	
134	IV	Year Subject	
141	III	Geology, General	146, 147, 148, 149, 150, 153, 294
142	III	Mineralogy	147, 151, 152, 153
143	III	Mineralogy (Determinative)	147, 152, 153
146 to 153	IV	Year Subjects	
170	I	History of Science	
171	III	Elements of Political Economy	172
172	IV	Canadian Economic Problems	
175	IV	Eng. Law	
191	I	Plane Trigonometry	218, 346
192	I	Algebra	198, 218
193	I	Mensuration	
194	I	Mechanics	83, 218
197	II	Anal. Geometry	
198	II	Calculus	86, 87, 111, 113, 201, 229
201	III	Calculus	117, 124, 125
218	II	Mechanics of Machines	224
223	III	Mech. Eng. Lab. (Elec. Eng. Course)	
224	III	Mech. of Machines	240
225	III	Machine Design	241, 242, 243
226	III	Mech. Eng. (General Course)	297, 298
227	III	" " (Mech. Eng. Students)	244, 245, 246, 247, 249 249a, 257
228	III	" " Lab.	249, 249a, 251, 257
229	III	Thermodynamics	251
231	III	Mech. Drawing	241
233	III	Summer School (Mech. Eng. Students)	
236	III	Machine Shopwork	252
237	III	Industrial Engineering	254

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
238	III	Accounting	253
240 to 258	IV	Year Subjects	
261	III	Elem. Metallurgy & Lab (Met. Eng. Stud'ts)	271, 272 274, 275, 277
262	III	Elem. Metall. (Chem. and Mining Eng. ")	271, 272, 273, 275, 283, 284
263	III	Fire Assaying	
264	III	Fire Assaying Lab	306
265	III	Metal. Calculations	278
267 to 284	IV	Year Subjects	
291	III	Mining Eng	297
292	III	Ore Dressing	300, 305
293	IV	Mine Mapping	
294	III	Mining Field School	
295	III	Crushing and Grinding Machinery	
297 and 298	IV	Year Subjects	
300	IV	Ore Dressing and Milling	
305	IV	Ore Dressing Lab	306
301 and 306	IV	Year Subjects	
311	I	Physics	53, 315, 316
312	I	Physical Lab	53,
315	II	Physics	111, 113, 318
316	II	Physical Lab	
318	III	Physics	124, 125
340	I	Mechanical Drawing	344
341	I	Desc. Geom	345
342	I	Freehand Drawing	
343	I	Lettering	
344	II	Mechanical Drawing	
345	II	Desc. Geometry and Perspective	
346	II	Surveying	92, 352, 353, 354
347	II	Surveying Fieldwork	92, 352, 353, 354
348	II	Mapping	92
351	III	Map Projections	
352	III	Surveying (Miners)	
353	III	" (Civils)	359, 361
354	III	" Fieldwork	361
359 to 399	IV	Year Subjects	

EXAMINATION TIME TABLES.

I.—Supplemental Examinations.

Supplemental examinations for all subjects of the First, Second and Third Years Applied Science are held in September. A schedule of these examinations may be obtained from the Dean.

II.—Sessional Examinations.

Note:—The following numbers correspond with the subjects in the prerequisite list and the departmental descriptions. Examinations begin at Nine A.M. and Two P.M., and normally last three hours.

Time Table, First Term Examinations (Subject to Revision).

Date		First Year	Second Year	Third Year	Fourth Year
*January 12th	A.M.	.....	.....	62, 97–98, 201	67, 71, 75, 97–98, 359
" "	P.M.	.....	.....	291	273
*January 13th	A.M.	Math., I (Arts)	197	86	104, 120, 149, 258, 280, 282
" "	P.M.	.....	.....	.....	150
*January 14th	A.M.	191	.....	11, 82, 295, 351	11, 100
" "	P.M.	.....	.....	58	172
*January 15th	A.M.	.....	.....	59, 92 237	22, 70, 103, 147
" "	P.M.	.. ..	.....	261 262	68

* Subject to change in 1931.

SECOND TERM EXAMINATION TIME TABLE (Subject to Revision)

(First three years in Engineering and the whole course in Architecture)

DATE		FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH AND FIFTH YEARS
April 15th	A.M.	.....	.....	56, 85, 224, 238, 292, 318	175
" "	P.M.	341	345	.....	.....
April 17th	A.M.	80, 33	81	90, 113	23
" "	P.M.	.....	.....	352	.....
April 18th	A.M.	5, 51	53, 26	28, 226, 227	17, 28
" "	P.M.	52	.....	223, 228	.....
April 20th	A.M.	193	346	.....	..
" "	P.M.	.....	.....	.....	32
April 21st	A.M.	192	315	87, 12	12
" "	P.M.	Arts 1	.....	.....	.....
April 22nd	A.M.	194	14, 316	15, 88	4, 15
" "	P.M.	.....	.....	265	4
April 23rd	A.M.	18	198	61, 141, 225	4
" "	P.M.	.....	.....	141	4
April 24th	A.M.	Arts 44, 311	19, 218	34, 171	4
" "	P.M.	.....	.....	.....	4
April 25th	A.M.	23A, 312	6, 83	142, 229, 353	4
" "	P.M.	.....	.....	.....	4
April 27th	A.M.	.....	24, 131	58, 89, 111	4
" "	P.M.	.....	.....	263	4

SECOND TERM EXAMINATIONS (Subject to Revision

DATE		FOURTH YEAR
April 27th	A.M.	111
Apr 130th	A.M.	175
May 1st	A.M.	67, 122, 244, 148
" "	P.M.	.....
May 2nd	A.M.	95, 121, 247, 272. 283
" "	P.M.	.....
May 4th	A.M.	65, 125, 251, 253, 300
" "	P.M.	.....
May 5th	A.M.	69, 94, 123, 271, 240, 254
" "	P.M.	.....
May 6th	A.M.	72, 101, 102, 249, 249a
" "	P.M.	.....
May 7th	A.M.	66, 96, 96a. 242, 243, 275
" "	P.M.	297
May 8th	A.M.	74, 117, 257, 146
" "	P.M.	.....
May 9th	A.M.	99, 124, 278
" "	P.M.	.....

III.—THE LECTURE TIME TABLES.

Complete time tables for all lectures and laboratory work are bulletined in the Engineering Building.

FACULTY OF MEDICINE

HISTORICAL SUMMARY

(Faculty of Medicine)

1821-1927

1744	James McGill, born October 6th (Founder's Day). Died 1813.
1801–02	Royal Institution for Advancement of Learning contemplated by Provincial Act of Parliament.
1811	Will by James McGill leaving landed estate and £10,000 to Royal Institution for Advancement of Learning for founding a University.
1818	Royal Institution for Advancement of Learning incorporated. Montreal General Hospital opened on original site on St. Lawrence Street.
1821	Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College. Corner-stone of new Montreal General Hospital laid.
1822–24	Montreal Medical Institution organized as a Medical School by Officers of Montreal General Hospital. At opening lecture at No. 20 St. James Street on October 28, 1824, there were four teachers and twenty-five students.
1829	Estate of James McGill surrendered by residuary legatee. First meeting of Governors at Burnside House. Montreal Medical Institution "engrafted upon" McGill University as its Medical Faculty. First session of Faculty of Medicine.
1831	Medical Faculty petitioned Legislature for permission to grant degrees, and framed statutes to fulfil conditions of charter for same by order of Solicitor-General.
1832	Statutes approved and permission to confer degrees granted to Medical Faculty, and Professorships granted by Crown to Drs. Holmes, Caldwell, Robertson and Stephenson.
1833	First University degree conferred in Medical Faculty upon W. Logie.
1836–37	Faculty removed to building next to present Bank of Montreal.
1840	Faculty removed to St. George Street.
1842	Arts Building erected on University grounds, where medical lectures were held 1845-51.
1852	Faculty removed to Côté Street.
1855	Sir William Dawson appointed Principal.

1860 Geo. W. Campbell appointed Dean, serving until 1882.

1872 First independent Medical Faculty building on University ground.
Graduation of William Osler.

1882 Geo. W. Campbell Memorial Fund for Medical Faculty ($50,000); Leanchoil Endowment Fund for Medical Faculty (Lord Strathcona, $50,000).
R. P. Howard appointed Dean.

1885 New laboratories erected in Medical Building (Lord Strathcona, $100,000).

1889 Robert Craik appointed Dean—George Ross, Vice-Dean.

1893 Sir William Peterson appointed Principal.
Pathological Laboratory erected (John H. R. Molson, $60,000); Chairs of Hygiene and of Pathology endowed (Lord Strathcona, $100,000).
Mrs. Mary Dow Endowment Fund presented to Medical Faculty ($10,000).

1894 Royal Victoria Hospital opened (Lord Mount-Stephen and Lord Strathcona).

1898–01 Medical Faculty Building reconstructed and enlarged with new laboratories, etc. (Lord Strathcona, $100,000.)
Joseph Morley Drake Chair of Physiology founded ($25.000).

1901 Thomas G. Roddick appointed Dean.

1906 Alexandra Hospital for Infectious Diseases opened.

1907 Medical Building partly destroyed by fire.

1908 F. J. Shepherd appointed Dean.

1909–11 New Medical Building (as at present) erected. (Lord Strathcona, $450,000.)

1911 Robert Reford endowment of Department of Anatomy ($100,000).
Arthur A. Browne Memorial Fund for Research established ($10,000).
Dr. James Douglas research fellowship in Pathology founded ($25,000).

1912 Eddie Morrice Laboratory of Pharmacology opened (D. Morrice, $14,000).
James Cooper Endowment Fund established for Internal Medicine ($60,000).

1913 Graduates of the Faculty of Medicine subscribed $12,566 to meet fire loss.

1914 H. S. Birkett appointed Dean.
No. 3 (McGill) General Hospital organized for Overseas service.
New Foundling Hospital opened.

1916 Ross Memorial Pavilion opened by H.R.H. Duke of Connaught (J. K. L. Ross).

1917 Geo. Ross Endowment Fund for Medical Faculty presented.

1919 Sir William Macdonald bequeathed $500,000 to Medical Faculty.
Faculty of Dentistry established. Osler Library (of the history of medicine and science) bequeathed to the Faculty of Medicine by Sir William Osler.

1920 Sir Arthur Currie appointed Principal.
Dr. J. W. Scane appointed Assistant Dean.

1921 Centenary Celebration.
Friends and Graduates of McGill donated $4,000,000 to University.
Province of Quebec donated $1,000,000 to University.
Rockefeller Foundation granted $1,000,000 to Medical Faculty.
F. G. Finley appointed Dean.

1922 Laboratories for Biological Sciences opened.
Geo. E. Armstrong appointed Dean.
New Outpatient Department erected at Royal Victoria Hospital.

1923 Pathological Institute erected.
C. F. Martin appointed Dean.

1924 Rockefeller Foundation gave $500,000 to Medical Faculty to establish University Clinic in Department of Medicine at Royal Victoria Hospital.
Amalgamation of Western Hospital with the Montreal General Hospital.

1925 Erection of Royal Victoria-Montreal Maternity Pavilion.
Roddick Memorial Gates opened.

1926 Closing of old Montreal Maternity Hospital.

1927 Sub-department of Industrial Medicine formed, with Industrial Clinic at the Montreal General Hospital. (Grant of $25,000 from Metropolitan Life Insurance Company.)
Inter-Hospital Commission formed for purposes of administration.

1929 Opening of new laboratory building for Experimental Surgery.
Rockefeller Foundation gave $85,000 for research in Surgery.

OFFICERS AND MEMBERS OF THE FACULTY SINCE ITS ORIGIN

DEANS

Dr. R. Robertson, official head of the Montreal Medical Institution, 1823, was followed by Dr. John Stephenson in 1829 as Registrar and official head of the Faculty up to 1842, when he was succeeded by Dr. A. F. Holmes with the title of Secretary.

A. F. Holmes, 1854.
Geo. W. Campbell, 1860.
R. P. Howard, 1882.
Robert Craik, 1889.
George Ross (Vice-Dean), 1889.
Thomas G. Roddick, 1901.
Francis J. Shepherd, 1908.
Herbert S. Birkett, 1914.
F. G. Finley, 1921.
George E. Armstrong, 1922.
C. F. Martin, 1923.
(J. W. Scane, Assistant Dean, 1920–1922.)

REGISTRARS

John Stephenson, 1829.
Archibald Hall, 1842.
William Wright, 1864.
Robert Craik, 1869.
William Osler, 1877.
F. J. Shepherd, 1883 (Acting).
James Stewart, 1884.
R. F. Ruttan, 1891.
E. M. Eberts, 1902.
(J. W. Scane, Assistant Dean, 1920-1922.)

Registrar abolished—1923

SECRETARIES

J. C. Simpson, 1923.

MEDICINE

Chair of Medicine
(Founded 1824)
William Caldwell, 1824.
William Robertson, 1833.
Andrew F. Holmes, 1842.
R. P. Howard, 1860.
George Ross, 1889.
James Stewart, 1893.

Chair of Clinical Medicine
(Founded 1845)
James Crawford, 1845 and 1852.
Robt. L. MacDonnell, 1849.
Stephen C. Sewell, 1850.
R. P. Howard, 1856.
Duncan C. MacCallum, 1860.
Joseph M. Drake, 1872.
George Ross, 1872.
Richard L. MacDonnell, 1889.
James Stewart, 1891.

Chair of Medicine and Clinical Medicine
(Founded 1907)
(Chair of Medicine since 1923)
F. G. Finley, 1907–1924.
H. A. Lafleur, 1907–1919.
C. F. Martin, 1907.
J. C. Meakins, Professor and Director, 1924.
C. P. Howard, 1924.
W. F. Hamilton, 1924.

SURGERY

Chair of Surgery
(Founded 1824)
John Stephenson, 1824.
G. W. Campbell, 1835.
Geo. E. Fenwick, 1875.
T. G. Roddick, 1890.

Chair of Clinical Surgery
(Founded 1840)
James Crawford, 1845.
William E. Scott, 1852.
Duncan C. MacCallum, 1856.
Robert Craik, 1860.
George E. Fenwick, 1867.
Thomas G. Roddick, 1876.
James Bell, 1894.

Chair of Surgery and Clinical Surgery
(Founded 1907)
(Chair of Surgery since 1923)
James Bell, 1907–1911.
Geo. E. Armstrong, 1907–1923.
J. A. Hutchison, 1913–1923.
E. W. Archibald, Professor and Director, 1923.
A. T. Bazin, 1923.
E. M. Eberts, 1929.

OBSTETRICS AND GYNÆCOLOGY

Chair of Obstetrics
(Founded 1824)

William Robertson, 1824.
John Racey, 1833.
Geo. W. Campbell, 1835.
Michael McCulloch, 1842.
Archibald Hall, 1854.
D. C. MacCallum, 1868.
Arthur A. Browne, 1883.
J. Chalmers Cameron, 1886.

Chair of Gynæcology
(Founded 1883)

William Gardner, 1883.
W. W. Chipman, 1910.

Chair of Obstetrics and Gynæcology
(Founded 1913)

W. W. Chipman, 1913.
J. R. Fraser, 1929.
H. M. Little, 1929.

ANATOMY

(Chair founded 1824)

John Stephenson, 1824.
Oliver T. Bruneau, 1842.
William E. Scott, 1856.
Francis J. Shepherd, 1883.
A. C. Geddes, 1913.
S. E. Whitnall, 1919.

CHEMISTRY

Chair of Chemistry
(Founded 1824)

Andrew F. Holmes, 1824.
Archibald Hall, 1842.
William Sutherland, 1849.
Robert Craik, 1867.
Gilbert P. Girdwood, 1879.
R. F. Ruttan, 1902.

Chair of Practical Chemistry
(Founded 1872)

Gilbert P. Girdwood, 1872.
R. F. Ruttan, 1894.

Chair of Bio-Chemistry

A. B. Macallum, 1920.
J. B. Collip, 1928.

INSTITUTES OF MEDICINE

Chair of Institute of Medicine

(Founded 1824 and included the Department of Physiology, Histology and Pathology)

JOHN STEPHENSON, 1824.
STEPHEN C. SEWELL, 1842.
ROBERT L. MACDONNELL, 1845.
WILLIAM FRASER, 1849.
JOSEPH M. DRAKE, 1868.
WILLIAM OSLER, 1874.

PHYSIOLOGY

(Founded 1824—endowed 1897)

WESLEY MILLS, 1886.
N. H. ALCOCK, 1911.
G. R. MINES, 1914.
JOHN TAIT, 1919.
BORIS P. BABKIN, 1928.

PATHOLOGY

(Founded 1892—endowed 1893)

J. GEO. ADAMI, 1892.
H. OERTEL, 1919.

PHARMACOLOGY

Chair of Pharmacology and Therapeutics

(Founded 1824)

ANDREW F. HOLMES, 1824.
ARCHIBALD HALL, 1835.
STEPHEN C. SEWELL, 1842.
A. HALL, 1849.
WILLIAM WRIGHT, 1854.
JAMES STEWART, 1883.
A. D. BLACKADER, 1891.

Chair of Pharmacology

H. G. BARBOUR, 1921.
R. L. STEHLE, 1924.

BOTANY

(Chair founded 1829)

ANDREW F. HOLMES, 1829.
DR. PAPINEAU, 1845.
J. W. DAWSON, 1855–56 and 1858–83.
JAMES BARNSTON, 1857–58.
D. P. PENHALLOW, 1883.
F. E. LLOYD, 1912.

MEDICAL JURISPRUDENCE

(Chair founded 1845)

WILLIAM FRASER, 1845.
FRANCIS BADGLEY, 1849.
FRANCIS C. T. ARNOLDI, 1850.
WILLIAM E. SCOTT, 1851.
WILLIAM WRIGHT, 1852.
R. PALMER HOWARD, 1854.
DUNCAN C. MACCALLUM, 1860.
GEORGE E. FENWICK, 1867.
WILLIAM GARDNER, 1875.
GEORGE WILKINS, 1883.
D. D. MACTAGGART, 1911–1929.

HYGIENE AND PUBLIC HEALTH

(Chair founded 1871—endowed 1893)

GEORGE ROSS, 1871.
THOMAS G. RODDICK, 1873.
ROBERT T. GODFREY, 1875.
WILLIAM GARDNER, 1879.
R. L. MACDONNELL, 1886.
ROBERT CRAIK, 1889.
WYATT JOHNSTON, 1902.
T. A. STARKEY, 1902.
A. G. FLEMING, Professor and Director of the Department of Public Health and Preventive Medicine, 1926.

OPHTHALMOLOGY AND OTO-LARYNGOLOGY

Chair of Ophthalmology and Otology
(Founded 1883)

FRANK BULLER, 1883.

Chair of Laryngology
(Founded 1893)

G. W. MAJOR, 1893.
H. S. BIRKETT, 1895.

Chair of Oto-Laryngology

H. S. BIRKETT, 1895.

Chair of Ophthalmology

J. W. STIRLING, 1906.
W. G. BYERS, 1923.

CHAIR OF ZOOLOGY

E. W. MACBRIDE, 1902.
ARTHUR WILEY, 1910.

CHAIR OF HISTORY OF MEDICINE

ANDREW MACPHAIL, 1907.

ENTRANCE REQUIREMENTS

A sound general education is an essential foundation for professional training and a four-year course leading to a B.A. or B.Sc. degree is considered the most desirable preparation for the study of medicine. Preference will be given, therefore, to applicants who have had a full academic course in which the humanistic studies have not been sacrificed to a narrow scientific specialization.

Candidates without a degree should have at least three years of college work. In exceptional cases applications may be received from students who have completed two years of work in a recognized college or faculty of Arts, provided they present certificates that they have scholastic standing placing them in the first third of their class.

It is distinctly to be understood that the Faculty does not undertake to accept all students who have passed the courses necessary to fulfil the requirements and reserves the right to select for admission only those candidates who, in the opinion of the Committee on Admissions, give promise of work of high quality in the medical course.

All applicants must present satisfactory evidence that their college courses include the following:—

Physics—One year of general college Physics with laboratory work.

Biology—One year of General Biology and Zoology with laboratory work. One half-year of Botany and one half-year of Zoology will be accepted, but not one year of Botany alone.

Chemistry—Two years:—

(a) One full course of General Chemistry with laboratory work.

(b) One full course of Organic Chemistry with laboratory work.

Students who wish to pursue their preliminary course at McGill may register as regular undergraduates in the Faculty of Arts and should apply for admission to the Faculty of Medicine at the end of their third year or preferably on graduation.

Candidates for admission to the Faculty of Medicine must also present evidence that they have satisfied the matriculation requirements of the Licensing Body of the Province to which they belong. (For further particulars see "Requirements for Licence to Practise," p. 359.)

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than July 1st.

A fee of $25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

APPLICATION FOR EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit to the Secretary of the Faculty an official statement of his preliminary education and of the course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office for the session 1930-31 on September 10th to September 16th, 1930. Those who register after September 16th will be required to pay a fee of $5.00 if they do so during the first week of the session and $10.00 if during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

COURSE FOR THE M.D. DEGREE AND EXAMINATIONS

A. The Medical Course

Each session is divided into three terms of ten weeks, and the course will be completed in fifteen terms—or, if the student so desires, he may proceed more slowly prior to taking the examinations for his degree.

The curriculum is so arranged as to permit of a student taking additional or advanced work in certain terms, while in the hospital year much more latitude will be afforded for independent study.

The tenth, eleventh and twelfth terms are arranged on a rotary system.

B. Examinations

1. *Class Examinations,* oral or written, are held during the session to test the progress of the student. If the standing obtained by any student in these examinatons is unsatisfactory, he shall not be permitted to take the final examination.

2. *Final or University Examinations* are the ultimate test in determining a student's fitness for promotion or graduation. They are held at the end of the Winter and Spring Terms and during the fortnight preceding the opening of the Autumn Term in September.

The Final or University Examinations include the following subjects arranged in three divisions:—

First:—

1.	Anatomy	3 terms
2.	Histology	2 "
3.	Bacteriology	1 term
4.	Physiology	3 terms
5.	Biochemistry	2 "

Second:—

6.	Pharmacology	1 term
7.	Pathology and Medical Jurisprudence.	5 terms

Third:—

8.	Public Health and Preventive Medicine	2 terms
9.	Obstetrics and Gynæcology	2 "
10.	Surgery (including Urology and Orthopædic Surgery)	6 "
11.	Medicine (including Pediatrics, Neurology, Psychiatry, Dermatology and Laboratory Diagnosis)	7 "

In order to qualify for these examinations, a candidate must have attended a course or courses of study extending over at least the number of terms specified in each case.

3. *Re-examination:*—A student who has failed in the Final Examination in any subject may apply for re-examination at the next examination period. Applications must be in the hands of the Secretary at least one week before the date set for the beginning of the examinations, and the applicant must at the same time pay to the Bursar a fee of $5.00 for each subject.

C. Grading

At the conclusion of each course students will be graded in five groups, as follows:—

A = Honours
B = Good
C = Fair
D = Doubtful
E = Failure.

In reporting the grading, the names of those students who attain honour standing shall be arranged in order of merit; in all other grades the arrangement shall be alphabetical.

The grade assigned to a student shall be based upon the result of the Final and Class Examinations, but the instructor will also take into account the record of the work done throughout the course.

The quality of the English used by a candidate will be taken into account in determining his standing in all examinations.

D. Promotion

As noted in section A, the Final or University Examinations are arranged in three divisions. Whilst a certain latitude is permitted as to the time at which these examinations are passed, the following rules will be rigidly enjoined:—

1. *First Division.*—A student must pass the examinations in all subjects of the First Division before he will be permitted to begin the work of the seventh term.

2. *Second Division.*—The examinations in Pharmacology and General Pathology must be passed before a student will be permitted to proceed to the work of the tenth term. The examination in Special Pathology must be passed before the student may proceed to the work of the thirteenth term.

3. *Third Division.*—A candidate may pass the Final Examinations in Public Health separately from the examinations in the other subjects of the Third Division, but not earlier than the end of the twelfth term.

To qualify for the Final Examinations in Medicine, Surgery and Obstetrics, a candidate must have:—

(a) Attended courses extending over a period of not less than fifteen terms.

(b) Satisfactorily completed the prescribed courses of study and practice in:—

i. Ophthalmology,
ii. Oto-laryngology,
iii. Abnormal Psychology and Psychiatry,
iv. Infectious Diseases,
v. Anæsthesia,
vi. Post-mortem Examinations,

and such other courses as the Faculty may from time to time determine.

The Final Examinations in Medicine, Surgery and Obstetrics must all be passed at one time, but a student who fails in one of these subjects only may, at the discretion of the Faculty, be allowed a re-examination in that subject at the next regular examination period, provided that he shall have satisfactorily completed such additional work as may be prescribed by the Head of the Department concerned.

4. The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent.

5. At the end of the Spring Term, the Promotion Committee will consider the cases of all students who at the conclusion of their third term are reported by their instructors as having fallen below the grade of C and shall determine whether such students are to be allowed to continue, warned, required to repeat the course or courses, or retired from the Faculty.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all of the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for five full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one shall be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the five years of the Medical course.

5. He must have attended during at least three sessions or nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during one full session the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENSE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a license to practise can be obtained. In order that disappointment and loss of time may be avoided, the University *requires students to register with the licensing body of their home province or state before beginning their medical course.*

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC.—Dr. J. Gauvreau, 354 St. Catherine Street E., Montreal.

ONTARIO.—Dr. H. Wilberforce Aikens, 170 University Avenue, Toronto, Ont.

NEW BRUNSWICK.—Dr. S. H. McDonald, 56 Colborne Street, Saint John, N.B.

NOVA SCOTIA.—Dr. W. H. Hattie, Halifax, N.S.

PRINCE EDWARD ISLAND.—Dr. H. D. Johnson, Charlottetown, P.E.I.

MANITOBA.—Dr. J. E. Coulter, 604 Boyd Bldg., Winnipeg, Man.

ALBERTA.—Dr. George R. Johnston, Calgary, Alta.

SASKATCHEWAN.—Dr. A. MacG. Young, Saskatoon, Sask.

BRITISH COLUMBIA.—Dr. A. P. Proctor, Vancouver, B.C.

The Registrar for Newfoundland is Dr. T. Mitchell, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the license of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a license from the General Council it is necessary to pass one of the examining boards of Great Britain in the final subjects.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

COURSES OF INSTRUCTION

ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.

ASSISTANT PROFESSOR:—J. BEATTIE.

LECTURER:—H. E. MACDERMOT.

SENIOR DEMONSTRATOR:—D. S. FORSTER.

DEMONSTRATORS:—G. C. ANDERSON; E. H. CAYFORD; E. B. CHANDLER; H. M. ELDER; R. R. FITZGERALD; G. A. FLEET; G. D. LITTLE; R. BRUCE MALCOLM; R. M. H. POWER; A. ROSS; W. W. RUDDICK; P. G. SILVER.

The required courses in Anatomy, Histology and Embryology are given in the first three terms of the Medical Course. In subsequent terms opportunity is afforded for a complete revision in Anatomy, together with optional courses of advanced work, both gross and microscopic.

REQUIRED COURSES

1. **Lecture Course in Gross Anatomy.**
   Three hours weekly throughout the Autumn, Winter and Spring Terms.....Professors Whitnall and Beattie.

Text-books:—Gray's "Anatomy" (English Edition); Whitnall's "Study of Anatomy."

Reference books:—Quain, Cunningham, Piersol, Keith's "Human Embryology and Morphology."

Recommended for Collateral Reading:—Keith's "Menders of the Maimed"; Hilton's "Rest and Pain."

2. **Laboratory Course in Gross Anatomy.**
   Fifteen hours weekly during the Autumn and Winter Terms, and fourteen hours weekly during the Spring Term.
   Professor Whitnall and Staff.

Practical Manual:—Walmsley.

3. **Tutorials:** Devoted mainly to the study of osteology and surface anatomy.
One hour weekly throughout the session.
Drs. MacDermot and Forster
Text-books:—Gray's "Anatomy"; Thompson's "Surface Anatomy."

4. **Discussions:** Informal class discussions upon problems and difficulties.
One hour a week throughout the session.....Dr. Beattie.

5. **Revision Course:** An optional laboratory course covering the whole body.
Three hours weekly throughout the session for students who have completed the required work.....Professor Whitnall and Staff.

6. **Elective Work:** Advanced or special work by arrangement.
Six hours weekly during the Spring Term.
Professor Whitnall and Staff.

7. **Ophthalmological Anatomy:** Mainly a laboratory course designed for graduates in Medicine who intend to specialize in Ophthalmology.
By arrangement. Details on application.....Professor Whitnall.

8. **Oto-laryngological Anatomy:** A similar course.
By arrangement. Details on application.....Professor Whitnall.

9. **Physical Anthropology:** A didactic and laboratory course.
By arrangement .....Dr. Beattie.

10. **Neurology:** A series of colloquia on recent work on the Nervous System.
By arrangement .....Dr. Beattie.

11. **Comparative Anatomy of the Primates:** Offered for students taking the Honours Course in the Biological Sciences. The course is based upon and continues the work of general comparative anatomy and leads on to the study of human anatomy.
Two lectures or colloquia and two hours of laboratory work per week during the year.....Dr. Beattie.

HISTOLOGY AND EMBRYOLOGY

PROFESSOR:—J. C. SIMPSON.

LECTURERS IN HISTOLOGY:—D. J. BOWIE. W. M. FISK. C. T. CROWDY.

DEMONSTRATOR:—G. C. ANDERSON.

Required Courses

1. **Histology and Embryology—Lecture Course.**
Three hours weekly during the Autumn and Winter Terms.
Professor Simpson and Dr. Fisk.
Text-books:—Jordan, Bailey, Lewis and Bremer.

2. **Histology and Embryology—Laboratory Work.**
Seven hours weekly during the Autumn and Winter Terms.

3. **Organogenesis:** The development of the organs and systems of the human body.
One hour a week throughout the Session.....Professor Simpson.
Reference books:—Jordan; Arey; Keith.

Options

4. **Special Histology and Embryology.**
Laboratory course open to students who have completed Courses 1 and 2.
Three hours weekly (Saturday mornings) throughout the Session.

5. **Optional Work:** Advanced work, including microscopical technique.
Six hours a week during the Spring Term. By arrangement.

PHYSIOLOGY

The Joseph Morley Drake Professor:—John Tait.

Research Professor:—Boris P. Babkin.

Assistant Professor:—N. Giblin.

Demonstrator:—D. A. Ross.

In this department special provision is made not only for undergraduate but also for graduate instruction. There are full courses in Physiology proper for all undergraduates. For graduate purposes other special courses are given.

Required Courses

1. **Introductory Course**—Lectures and Demonstrations.
In this course, which is comprehensive rather than detailed, the general principles of the subject are dealt with.
Five hours a week during the Spring Term.

2. **Intermediate Course**—Lectures, Demonstrations and Laboratory.
   Three lectures, one demonstration and six hours laboratory work a week. Autumn Term.
   The more detailed description of the nervous system and sense organs forms a part of this course. The accompanying laboratory course consists of experiments on surviving parts of the frog and on the human subject.
   Text-books:—Howell, Macleod, Starling, Stewart.

3. **Senior Course.**—Lectures, Demonstrations and Mammalian Laboratory.
   During these lectures the survey of the subject for undergraduate medical purposes is completed. The laboratory work accompanying the course involves a more advanced operative and instrumental technique.
   Three lectures, one demonstration and six hours of laboratory work. Winter Term.
   Text-book:—Sharpey-Schafer, "Experimental Physiology."
   Laboratory Text-book:—Sherrington, "Mammalian Physiology."

4. **Lectures on Autonomic Nervous Systems**..Professor Babkin.

5. **Lectures on Selected Advanced Topics**.....Professor Giblin.

6. **Lectures on Structure and Function**.....Professor Tait.

7. **Advanced Laboratory.**

8. **Physiological Colloquium.**

PSYCHOLOGY

PROFESSOR OF ABNORMAL PSYCHOLOGY:————————
ASSISTANT PROFESSOR OF ABNORMAL PSYCHOLOGY: ————————.

REQUIRED COURSE

1. **Normal and Abnormal Psychology.** Psychophysiological standpoint, the relation of abnormal to normal mental life and behaviour, the mechanism of behaviour and the physical basis of consciousness, theories of the unconscious, the motivation of behaviour, association and dissociation; imitation, suggestion, instinct, habit, emotion, memory, intelligence, character, temperament, and their abnormalities.
   Two lectures a week. Seventh and Eighth Terms.

Optional Courses

These are one term courses open to students in the Fourth and Fifth Years and to graduates.

2. **Mental Measurements.** Intelligence tests, ratings of character and temperament, and other mental examination methods.
The course will include practice in giving tests.
This course is intended for students specializing in psychiatry.
By arrangement.

3. **Child Psychology.** Aspects of mental development, with special reference to the pre-school child. The course will include practical observations in the McGill Nursery School.
This course is intended for students specializing in pediatrics.
By arrangement.

4. **Psychology in Industry.** The selection of employees, the worker's efficiency, and his adjustment to his task.
This course is intended for students specializing in Industrial Medicine.
By arrangement.

BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY

Professor:—J. B. Collip.

Assistant Professors:—D. L. Thompson. J. W. Scott.

Lecturers on Pathological Chemistry:—E. H. Mason. I. M. Rabinowitch.

Research Fellows:—R. L. Kutz. J. S. L. Browne. L. I. Pugsley.

1. Biochemistry—Lecture Course.

During the first half of the course the lectures deal with the chemical constitution, the physical and other characters and the relationships of the products of the activities of living matter, carbohydrates, fats, proteins, urea, purins, etc., and in the second half will involve an extensve discussion of (a) the origin, character and the active properties of the various ferments of the digestive tract; (b) the chemical and physical processes involved in, and the products resulting from,

the digestion, absorption and assimilation of the foodstuffs in the human body; (c) the intermediate and ultimate products of metabolism, and (d) the chemistry of the tissues and of blood, bile and urine.

Four hours a week during the Autumn and Winter Terms.

2. Biochemistry—Laboratory Course.

The exercises will deal with the practical side of the subjects treated in the lecture course, such as the digestion of starch, fats, and proteins, the absorption and assimilation of fats, the metabolism of the carbohydrates absorbed, and of the products of protein digestion. Especial attention will be given to the methods of the qualitative and quantitative determination of the more important metabolites, such as urea, uric acid, creatine, creatinine, etc.

Twelve hours per week during the Autumn and Winter Terms.

Towards the close of Courses 1 and 2 in the second term, special attention will be given to pathological chemistry, which will involve a course of about twenty lectures and about fifty hours of practical work on metabolism in disease.

In addition to the written and practical examination exacted of each student in this course, oral examinations will be held and the results thus obtained will, with those from the written and practical tests, serve to determine the standing of the student in the class list in Biochemistry for the year.

Text-books:—Cameron, "A Text-book of Biochemistry"; Folin, "Laboratory Manual of Biological Chemistry"; Lusk, "Science of Nutrition."

Reference books:—Robertson, "Principles of Biochemistry"; Bayliss, "Principles of General Physiology"; Plimmer, "Practical Organic and Bio-Chemistry"; Mathews, "Physiological Chemistry"; Bodansky, "Introduction to Physiological Chemistry"; Hawk, "Practical Physiological Chemistry"; Pryde, "Recent Advances in Biochemistry"; Lovatt-Evans, "Recent Advances in Physiology"; Macleod, "Physiology and Biochemistry in Medicine"; Burns, "An Introduction to Biophysics"; Thomson, "The Life of the Cell"; Gortner, "Outlines of Biochemistry."

PATHOLOGY

STRATHCONA PROFESSOR:—HORST OERTEL.

ASSOCIATE PROFESSOR:—L. J. RHEA.

ASSISTANT PROFESSOR:—T. R. WAUGH.

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE.

LECTURER:—J. E. PRICHARD.

LECTURER IN NEUROPATHOLOGY:—W. V. CONE.

ASSISTANT DEMONSTRATORS:—W. J. BAXTER, R. J. CALDWELL, H. S. N. GREENE, J. B. VAN DER VEER.

CURATOR OF MUSEUMS:—E. L. JUDAH.

REQUIRED COURSES

1. **General Pathology and Pathological Morphology.**
Comprising (1) the philosophical and historic evolution of the conceptions of disease; (2) the general foundations and relations of morbid life in constitution, physical and chemical environment and parastism; (3) pathogenesis and the structural changes incident to it. Two lectures with epidiascope demonstrations a week—Autumn, Winter and Spring Terms.....Professor Oertel.

2. **Laboratory Course in General Pathological Anatomy and Histology,** (including the methods of microscopic technique and diagnosis with practical exercises in the living animal, in fresh and in hardened tissues).
Six hours weekly—Winter and Spring Terms.
Pathological Institute.....Professor Oertel and Demonstrators.

3. **Special Pathology of the Circulatory, Respiratory, Digestive and Renal Systems.**
One lecture with epidiascope demonstrations a week—Autumn. Winter and Spring Terms.....Professor Oertel.

4. **Laboratory Course in Special Pathological Anatomy and Histology.**
One hour a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Waugh and Demonstrators.

5. **Diseases of the Blood-forming Organs.**
One lecture a week—Autumn Term.....Professor Waugh.

6. **Pathological Anatomy of the More Important Ductless Glands.**
One lecture a week—Winter Term.....Dr. Chase.

7. **Pathological Anatomy of the Nervous System.**
One lecture a week—Spring Term.
Dr. Cone (in conjunction with Professor Penfield).

8. **Practical Course of Pathological-Anatomical Methods and Diagnosis.**
Once a week—Autumn, Winter and Spring Terms.

9. **Performance of Autopsies**—Group instruction.
Autumn, Winter and Spring Terms.
Pathological Institute.....Dr. Chase and Demonstrators.
Montreal General Hospital....Professor Rhea and Demonstrators.

10. **Gross and Microscopic Demonstrations and Discussions of specimens Removed at Surgical Operations.**
Once a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Waugh.

11. **Clinico-Pathological Conferences.**
On cases from the medical service of the Royal Victoria Hospital.
Once a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Pathological and Hospital Staffs.

12. **Clinico-Pathological Conferences.**
On cases from the various medical and surgical services of the Montreal General Hospital
Laboratories of the Montreal General Hospital.
Pathological and Hospital Staffs.

Reference books:—Oertel, "Outlines of Pathology"· Virchow, "Cellular Pathology"; Cohnheim, "Lectures on Pathology"; Ziegler, "Specielle Pathologie"; Delafield and Prudden, "Text-book of Pathology"; Wells, "Chemical Pathology."

For advanced courses leading to higher academic degrees or options see page 508.

BACTERIOLOGY

PROFESSOR:—F. C. HARRISON.
ASSISTANT PROFESSOR:—A. A. BRUÈRE.
LECTURER:—W. W. BEATTIE.

REQUIRED COURSES

1. **General Course:** Lectures and laboratory.
Spring Term. First Year.
Pathological Institute.....Professor Harrison and Assistants.

2. **Special Course.**
Third Year.
Pathological Institute.
Professor Bruère, Dr. Beattie and Demonstrators.

For advanced courses leading to higher academic degrees or options see page 508.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

PROFESSOR AND DIRECTOR:—A. GRANT FLEMING.

STRATHCONA PROFESSOR OF HYGIENE:—T. A. STARKEY

ASSISTANT PROFESSORS:—R. ST. J. MACDONALD. F. B. JONES.

ASSISTANT PROFESSOR OF MENTAL HYGIENE:—W. T. B. MITCHELL.

LECTURER IN MENTAL HYGIENE:—C. M. HINCKS.

DEMONSTRATOR IN MENTAL HYGIENE:—BARUCH SILVERMAN.

DEMONSTRATOR IN INDUSTRIAL HYGIENE:—R. VANCE WARD.

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

In order that the importance of Public Health and Preventive Medicine may be kept before the student, short courses are given in the First and Second Years. These courses are of an introductory nature and from a historical background, develop the needs and opportunities for preventive medicine and its relation to society.

The main course is given in the Third Year, with the exception of the communicable diseases, which come in the Fourth Year.

The Department aims to correlate the teaching of the preventive aspects of medicine with that which is dealt with by other departments in their special field. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child, industrial hygiene and mental hygiene.

The course in Mental Hygiene, included in the programme of the Department of Public Health and Preventive Medicine, attempts to give the student an understanding of what is possible and of what is being done in the way of preventing nervous and mental diseases, delinquency and crime, and social failure. This implies a knowledge of what is normal in the way of behaviour responses at the different stages of the individual development; of how we may recognize and deal

with significant deviations from the average response; the factors underlying individual success and failure; the place and the means of introducing mental health principles into home, school, social and industrial situations.

The course includes introductory lectures in the First and Second Years, in an attempt to give the student more complete insight into his own behaviour responses and an objective attitude to the behaviour responses of others. This introductory course is followed up by the formal mental hygiene presentation, covering ten hours, in the Third Year.

The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the School Medical Officer, a post frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work people are discussed, and the means which may be taken to supervise their health and safety are considered.

In the Third Year, visits of inspection are made to plants selected to illustrate the general principles of water purification, the modern dairy plant, including pasteurization and industrial hygiene.

A brief course in Applied Public Health Bacteriology is given to familiarize the student with the facilities available, the method of taking specimens, the methods of examination and the interpretation of laboratory reports on water, milk, sputum, nose and throat swabs.

A health study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the Fifth Year. This study requires individual field work by each student.

An optional practical course, more advanced than the above regular course, is open to students wishing to go more fully into the subject.

Text-books and Reference books:—

The General Field:—Parkes and Kenwood; Notter and Firth; Harrington and Richardson; Rosenau; Park; Fitzgerald.

Industrial Hygiene:—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

Mental Hygiene:—The Mental Hygiene of Childhood, White.

School Hygiene:—The Fundamentals of School Health, Kerr.

PHARMACOLOGY

PROFESSOR:—R. L. STEHLE.

ASSISTANT PROFESSOR OF THERAPEUTICS:—D. S. LEWIS.

ASSISTANT PROFESSOR OF PHARMACOLOGY:—N. B. DREYER.

LECTURER IN PHARMACOLOGY:—K. I. MELVILLE.

LECTURER IN THERAPEUTICS:—D. GRANT CAMPBELL.

LECTURER IN ANÆSTHESIA:—WESLEY BOURNE.

LECTURERS IN PHYSIO-THERAPY:—F. W. HARVEY. NORMAN BROWN.

DEMONSTRATOR IN PHARMACOLOGY:—W. DE M. SCRIVER.

DEMONSTRATOR IN PHARMACOLOGY:—J. B. ROSS.

ASSISTANT DEMONSTRATOR:—C. J. TIDMARSH.

REQUIRED COURSES

Second Year

1. **Pharmacology.**—The action of drugs is considered in as exact a fashion as possible from information derived by means of experimental methods and careful clinical observation. A serious attempt is made to familiarize the student with the chemistry of the drugs studied in so far as it is known.

   Three lectures a week during the Spring Term, supplemented by one conference and one demonstration a week.

   Drs. Stehle, Dreyer and Melville.

2. **Pharmacological Laboratory.**—The experiments are chosen to illustrate the lectures of the preceding course.

   Two periods (six hours) a week during the Spring Term.

   Drs. Stehle, Dreyer and Staff.

Fourth Year

3. **Therapeutics.**—The principles of therapeutics and the application of drugs in internal medicine, surgery, and the specialties are covered.

   Two lectures a week during the Autumn Term and one per week during the Winter Term.....Dr. Lewis.

4. **Pharmacy and Prescription Writing.**
Five lectures and five laboratory periods during the Winter Term.
Drs. Scriver and Dreyer.

5. **Physio-therapy.**
Three lectures and three periods of group instruction during the Winter Term.....Drs. Lewis, Brown and Harvey.

Fifth Year

6. **Clinical Therapeutics.**—One ward class per week for one term in conjunction with the Department of Medicine.
Drs. Lewis and Campbell.

Text-books in Pharmacology:—Cushny, Sollmann, Pouisson, Meyer and Gottlieb.

Options

Suitably prepared persons may undertake research at any time.
Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See page 510.

MEDICINE

Professor and Director of the Department:—Jonathan C. Meakins.

Professors:— Campbell Palmer Howard.
W. F. Hamilton.
C. F. Martin.

Associate Professor:—A. H. Gordon.

Assistant Professor of Medical Research:—Maude E. Abbott.

Assistant Professor of Medical Research (Biochemistry):—
C. N. H. Long.

Assistant Professors:— E. H. Mason.
C. A. Peters.
I. M. Rabinowitch.

Lecturers:— J. G. Browne, D. G. Campbell, J. Kaufmann,
D. S. Lewis, A. H. MacCordick,
C. F. Moffatt.

Lecturer (Tuberculosis):—J. R. Byers.

DEMONSTRATORS: — C. C. BIRCHARD, C. R. BOURNE, G. R. BROW, KEITH GORDON, R. H. M. HARDISTY, A. T. HENDERSON, C. R. JOYCE, D. C. MACCALLUM, H. E. MACDERMOT, J. F. MACIVER, D. W. MCKECHNIE, J. L. D. MASON, D. L. MENDEL, E. S. MILLS, LORNE MONTGOMERY, E. V. MURPHY, E. E. ROBBINS, W. DE M. SCRIVER COLIN SUTHERLAND, J. J. WALKER. J. C. WICKHAM.

ASSISTANT DEMONSTRATORS:— W. W. ALEXANDER, H. F. EBERTS, W. C. GOWDEY, H. N. SEGALL, C. J. TIDMARSH.

RESEARCH FELLOW:—R. V. CHRISTIE.

The object of this course is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and bio-chemistry with clinical medicine is emphasized—not only in the pre-clinical years but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded by the establishment of a modern medical clinic at the Royal Victoria Hospital. In this institution and at the Montreal General Hospital there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

Students must have followed up at least ten cases from their inception to a conclusion and be certified therefor.

REQUIRED COURSES

Sixth to Ninth Terms (2nd and 3rd years).

1. A course of lectures on the general principles of medicine, emphasizing and correlating the study of Anatomy, Physiology and Biochemistry in the signs and symptoms of disease.

Three hours a week—Spring, Autumn and Winter Terms.
Professors Meakins, Rabinowitch and Mason.

2. A course of clinical lectures twice weekly is given to demonstrate the application of the principles, as set forth in the course of lectures mentioned above.
Professors Meakins, Rabinowitch and Mason.

3. A course of practical instruction on physical examination and physical diagnosis. This course is given in the Wards and Out-patient Department of the Royal Victoria Hospital.
Professor Meakins and Assistants.

4. During the eighth and ninth terms, a limited number of cases are allotted to each student in the wards for introductory instruction in case-reporting and general examination of patients. This is supplemented by bedside clinics.

5. A course in clinical microscopy of forty periods is given in the laboratories of the Pathological Institute.
Four hours a week—Autumn and Winter Terms.
Dr. Kaufmann and Assistants.

Text and Reference books:—McLeod, "Physiology and Biochemistry in Modern Medicine"; Lewis, "Clinical Electrocardiography" and "Clinical Disorders of the Heart"; Meakins and Davies, "Respiratory Function in Disease"; Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Cabot, "Physical Diagnosis"; Thompson, "Elements of Surface Anatomy"; Lusk, "Science of Nutrition"; Krehl, "Basis of Clinical Symptoms."

Tenth, Eleventh and Twelfth Terms (4th Year).

6. A course of lectures throughout the session on the "Principles and Practice of Medicine," with collateral reading assigned on various topics. Professor J. C. Meakins and Assistants.

7. A course of theatre clinics at the Montreal General Hospital at which cases of unusual interest are presented.
Professor Gordon and Staff.

8. A course of bedside clinics to small groups at the Montreal General Hospital. Professor Gordon and Assistants.

9. A course at the Out-patient Department of Medicine and Pediatrics of the Montreal General Hospital, in small groups, where the student will act as a clinical clerk, taking routine histories, making a complete physical examination and performing some of the simpler laboratory tests. At the end of each period the interesting cases will be presented to the entire group by the physician in charge.

10. A course of clinical-pathological conferences for the entire class will be held once a week at the Pathological Laboratory of the Montreal General Hospital.

Professors Rhea, Howard, Gordon and Assistants.

11. Cases in the Medical Wards of the Montreal General Hospital are assigned to each member of the class for reporting. It is obligatory that each student shall present satisfactory case reports on at least ten patients during this course.

Text and Reference books:—Osler's "Practice of Medicine"; Taylor's "Practice of Medicine"; Nelson's "Loose-Leaf System of Medicine"; Oxford, "Loose-Leaf System of Medicine"; Dieulafoy, "The Text-book of Medicine"; Strumpell, "Text-book of Medicine for Students and Practitioners"; McKenzie, "Diseases of the Heart"; Purves Stewart, "Diagnosis of Nervous Diseases"; Bassler, "Diseases of the Stomach and Intestines"; Pharneo, "Teaching Hospitals."

Twelfth-Fifteenth Terms (5th Year).

Hospital year. Each student becomes virtually a member of the externe staff.

He is allotted in turn to various services of the hospital in the capacity of clinical clerk, participating in the keeping of records, the diagnosis and treatment of patients in wards and out-patient departments and in the laboratory duties. He will accompany the physicians in their daily rounds, attend autopsies and report on them to his teachers.

Regular theatre clinics are given only in the major subjects.

With the present limitation of students it becomes possible to give the student a closer familiarity than hitherto with practical scientific medicine and its allied subjects of neurology, psychiatry and pediatrics.

PEDIATRICS

CLINICAL PROFESSOR:—H. B. CUSHING.

LECTURERS:—
- A. B. CHANDLER.
- A. GOLDBLOOM.
- L. LINDSAY.
- S. GRAHAM ROSS.
- R. R. STRUTHERS.
- H. P. WRIGHT.

DEMONSTRATORS:—
- W. E. ENRIGHT.
- JESSIE BOYD SCRIVER.
- R. C. STEWART.
- W. E. WILLIAMS.

Instruction is given in all the clinical years. Emphasis is laid on the relation of pediatrics to public health and community problems in medicine.

Seventh to Ninth Terms (3rd Year).

1. A series of clinical demonstrations to groups of students on the methods of physical examination of infants and children at the Royal Victoria Hospital, extending over a period of two weeks.

Professor Cushing and Assistants.

2. A series of demonstrations to groups of students on the manifestations of disease in children.

Winter and Spring Terms.

Royal Victoria Hospital.....Professor Cushing and Assistants.

3. During the Autumn and Winter terms of this year, a limited number of cases are allotted to each student in the Pediatric Ward for introductory instruction in case-reporting and general examination of patients.

Tenth to Twelfth Terms (4th Year).

4. A course of lectures dealing with the peculiarities and development of children, the principles and theory of infant-feeding, the diseases peculiar to children and the differences in the manifestation and treatment of ordinary diseases of adults and children.

Thirty lectures.

Medical Building.....Professor Cushing and Assistants.

5. A series of clinics throughout the year, illustrating the lectures and demonstrating the ordinary diseases of childhood.

Children's Memorial Hospital....Doctors Lindsay and Goldbloom.

6. A series of demonstrations to groups, in Out-patient Department and Children's Ward, on the examination, diagnosis and treatment of sick children.

Montreal General Hospital.....Dr. Chandler and Assistants.

7. A series of demonstrations to groups of students each week on the ordinary acute infectious diseases.

Alexandra Hospital.

Professor Cushing, Doctors D. Grant Campbell and E. V. Murphy.

Thirteenth to Fifteenth Terms (5th Year).

8. Students act as assistants to the internes, report cases, attend ward rounds and Out-patient pediatric clinics in the various hospitals, supervised by the attending staffs of the hospitals.

9. A series of practical clinics to groups of students on infant feeding and the care and development of young infants.

Montreal Foundling Hospital.

Doctors Lindsay, Goldbloom and H. P. Wright.

10. A series of theatre clinics on the principal diseases of infancy and childhood.

Montreal General Hospital. .....Dr. Chandler.

Royal Victoria Hospital.....Dr. Ross.

11. A series of clinics to groups on the acute infectious diseases.

Alexandra Hospital.....Doctors Cushing, Campbell and Murphy.

12. A series of demonstrations to groups on prematurity, diseases of the newborn and the care and feeding of the newborn.

Montreal Maternity Hospital.

Doctors S. Graham Ross and R. R. Struthers.

13. A series of demonstrations in the various health centres and post-natal clinics on the care and feeding of normal children and the various phases of undevelopment—by the attending staff of these clinics.

Text-books:—Holt and Howland; Dennet; Feer, Still; Porter and Carter; Morse and Talbot; Alan Brown.

NEUROLOGY

CLINICAL PROFESSORS:— C. K. RUSSEL. F. H. MACKAY.

LECTURER IN NEUROLOGY:—A. W. YOUNG.

DEMONSTRATORS:— N. VINER. J. N. PETERSEN.

A course on Applied Anatomy of the Nervous System is given in the earlier years of study, and students of the First and Second Years are introduced, wherever possible, to neurological patients who illustrate the anatomy and physiology of the nervous system.

1. In the Third Year a series of demonstrations is given on clinical methods of examining the nervous system, and some of the commoner diseases are studied. Professor Russel and Assistants.

2. Clinical lectures and demonstrations on neurology are given in the Fourth and Fifth Years of the course in the wards and medical theatre of the Montreal General and the Royal Victoria Hospitals.

Professors Russel and Mackay and Assistants.

A series of demonstrations on Neuro-pathology is given in the laboratory.

PSYCHIATRY

CLINICAL PROFESSOR:—C. A. PORTEOUS.
ASSISTANT PROFESSOR:—DAVID SLIGHT.
DEMONSTRATOR:—A. G. MORPHY.
ASSISTANT DEMONSTRATOR:—E. C. MENZIES.

Instruction will be given in the Fourth and Fifth Year

REQUIRED COURSES

Tenth and Twelfth Terms.

1. A course of didactic lectures with clinical demonstrations of the commoner psychopathic conditions.

Medical Building.....Professor Slight.

Thirteenth and Fourteenth Terms (5th Year).

2. Clinical instruction in groups is given at the Psychiatric Clinic at the Royal Victoria Hospital, which furnishes examples of the various psychoses, the border line cases, and enables the student to become familiar with forms of mental defect, delinquency and allied conditions. The Clinic deals, moreover, with patients sent for investigation from the charitable agencies of the city and co-operation with the work of the Canadian National Committee for Mental Hygiene.

Professor Slight and Assistants.

3. Practical instruction.

Protestant Hospital for the Insane.

Professors Porteous and Slight.

In all group instruction the student is taught methods of testing psychopathic cases, and of making detailed diagnoses, while the general and occupational therapy, etc., of such cases is dealt with in detail in the hospital services.

Text-books:—"Outlines of Psychiatry," White; "Clinical Psychiatry," Kraeplin; "Psychiatric Neurological Examination Methods," Wimmes Hoisholt; "Diseases of the Nervous System," Jeliffe and White (1923 Ed.).

DERMATOLOGY

LECTURERS:—P. BURNETT. J. F. BURGESS.

DEMONSTRATORS:—C. R. BOURNE. L. P. EREAUX.

The course is entirely clinical, consisting of a weekly theatre clinic at the Montreal General Hospital, on specially selected cases, and out-door clinics, weekly, by Dr. J. F. Burgess at the Montreal General Hospital, and Dr. Philip Burnett at the Royal Victoria Hospital, throughout the session. Lantern slides are used to illustrate the course; also a large series of coloured plates and photographs.

Text-books:—Stellwagon, Walker's Introduction to Dermatology, Hartzell, McLeod, Darier, Campbell, Shamberg, Sutton.

HISTORY OF MEDICINE

PROFESSOR:—SIR ANDREW MACPHAIL.

A course of fifteen lectures will be given upon the History of Medicine to inform undergraduates in the Faculty upon the progress of the science. It is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.

SURGERY

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—

E. W. ARCHIBALD.

PROFESSORS:—A. T. BAZIN. E. M. EBERTS.

ASSISTANT PROFESSORS:—W. L. BARLOW, C. B. KEENAN, C. K. P. HENRY.

CLINICAL PROFESSOR OF NEUROLOGICAL SURGERY:—W. G. PENFIELD.

ASSISTANT PROFESSOR OF NEUROLOGICAL SURGERY:—W. V. CONE.

LECTURERS:—F. B. GURD, F. E. MCKENTY, F. A. C. SCRIMGER, F. J. TEES.

LECTURER IN ANÆSTHESIA:—W. B. HOWELL.

DEMONSTRATORS:—JOHN ARMOUR, E. B. CHANDLER, GUY JOHNSON, R. R. FITZGERALD, L. H. MCKIM, R. B. MALCOLM, A. STEWART.

DEMONSTRATORS IN ANÆSTHESIA:—J. W. ARMSTRONG. C. C. STEWART.

ASSISTANT DEMONSTRATORS:—HOWARD DAWSON, H. M. ELDER, G. A. FLEET, MARK KAUFMANN, B. F. MACNAUGHTON, G. GAVIN MILLER, ALBERT ROSS, DUDLEY ROSS, P. G. SILVER.

To obtain greater uniformity and a better perspective, the department of Surgery and Clinical Surgery has been placed under one head, who has been given control of the teaching in the wards and out-patient departments of the two large hospitals.

Montreal, situated at the head of ocean navigation, and a large railroad and industrial centre, is noted for the extensive amount and varied character of its clinical material. Indeed the teaching in surgery is mainly clinical and practical. In the Montreal General and Royal Victoria Hospitals there are between five and six hundred beds and also large out-patient departments.

REQUIRED COURSES

Seventh to Ninth Terms (3rd Year).

1. **Didactic Lectures Upon the General Principles of Surgery.** Fifteen lectures upon the general principles of surgery are given during the Autumn and Winter Terms. Medical Building.

2. **Clinical Instruction.** All the clinical instruction is given at the Royal Victoria Hospital, except on Saturday forenoon, when a fracture clinic is given at the Montreal General Hospital.

   Royal Victoria Hospital. Students are instructed both in the Out-door Department and the Wards. They are brought into immediate contact with the patient, and taught to take a correct history, to differentiate the abnormal from the normal, to apply their knowledge of anatomy, to make an examination, to dress wounds, apply splints, and to reduce the simpler fractures and dislocations. In this year every effort is made to teach the principles of the art and science of surgery, and to train the student in habits of observation.

Fractures. On each Saturday forenoon throughout the Winter and Spring Terms a special course of lecture demonstrations on fractures, taking up the general principles and illustrating these by cases, will be given at the Montreal General Hospital. The follow-up Out-door clinic for fractures will also be utilized to demonstrate and teach the use of ambulant apparatus and the methods of restoring function.

3. **Surgical Pathology.** During the first few weeks of the session there will be given a short practical course in Surgical Pathology of an introductory character, which will take up the fundamentals of inflammation, wound repair, and tumours. This will be very largely a laboratory demonstration course, and is designed to give the student at the outset of his clinical education a view of the pathological basis of the commoner diseases and injuries such as he will see first in his subsequent hospital service.

Tenth to Twelfth Terms (4th Year).

4. **Didactic Lectures Upon Regional Surgery.** During this year a series of thirty lectures will be given upon the main types of disease and injury. Medical Building.

5. **Clinical Instruction.** The clinical instruction in this year is given entirely in the Montreal General Hospital, except for alternate Wednesday forenoons, when the students are given a theatre clinic at the Royal Victoria Hospital. Students attend surgical clinics in the amphitheatre of the hospital three days in the week. They also attend the wards of the hospital in groups.

(a) Case Reporting in the Wards. Cases are assigned to students, who are required to examine the patient carefully, record the conditions found, arrive at a tentative diagnosis, outline the treatment indicated, assist at operations, and follow the case to conclusion.

(b) Surgical Amphitheatre Clinics. These are held three times a week, of which two clinics are given regularly at the Montreal General Hospital, while the third (Wednesday forenoon) is held alternately at this hospital and at the Royal Victoria Hospital throughout the session.

(c) Out-patient Department. Demonstration clinics on selected cases from the general surgical clinic are given twice weekly.

(d) Ward Classes. A teacher of mature experience and of professorial rank teaches students in the wards and instructs them in groups.

Thirteenth to Fifteenth Terms (5th Year).

The fifth is a purely hospital year. The student in his surgical term acts, for all practical purposes, as an externe, at whichever hospital he is attending. During the ten weeks of his term he devotes practically his entire time to the study of surgery.

(a) Theatre Clinics. One amphitheatre clinic is given alternately in the Royal Victoria Hospital and the Montreal General Hospital once a week throughout the session.

(b) Ward Classes. The students, in groups of not more than ten men, are taught at the bedside four hours a week.

(c) Case Reporting in the Wards. The student is responsible for the case reports of the patients allotted to him, which he is to write, with the help and under the control of the house surgeons, as well as of the chiefs of service. He must do his own laboratory work under the direction of a supervisor; he is to be present at the operations on his own cases, wash up, and assist; he must write the progress notes after operation, copy the pathological reports, and attend eventual autopsies, the principle being that he is to follow his case closely from beginning to end. During the term he is allotted on an average from twenty to twenty-five cases.

Students in this Year are required to do a good deal of collateral reading and to make themselves familiar with the anatomy, pathology and physiology of the injury or disease and of the region implicated.

6. Anæsthesia.

Didactic lectures and laboratory demonstrations on anæsthesia are given by the Department of Pharmacology and Therapeutics to the Third Year, and practical instruction in the administration of anæsthetics is given in the hospitals to students of the Fourth and Fifth Years. Every student is obliged to furnish a certificate of having given at least six anæsthetics under supervision.

7. X-Ray Course.

During the trimester of ten weeks a series of ten lecture-demonstrations is given, chiefly upon interpretation of roentgenograms.

8. Surgical Anatomy.

During the Fourth Year a series of ten lecture-demonstrations will be given upon the more important applications of anatomy to surgery.

Text-books:—

1. *General Surgery:* Choyce, C. C., "A System of Surgery"; Thomson and Miles, "Manual of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery."

2. *Emergency Surgery:* Sluss, John W., "Manual of Emergency Surgery."

3. *Surgical Anatomy:* Treves' "Surgical Applied Anatomy."

4. *Fractures:* Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations."

5. *Case Reporting:* White, J. Renfrew, "The Clinical Examination of Surgical Cases"; Ryerson, "Process of Diagnosis."

UROLOGY

CLINICAL PROFESSORS:—{D. W. MACKENZIE. F. S. PATCH.

LECTURER:—R. E. POWELL.

DEMONSTRATOR:—M. SENG.

Students attend this department in the Royal Victoria and Montreal General Hospitals, for instruction in the methods of diagnosis and treatment of surgical diseases of the urinary and male genital organs and syphilis.

During the Fourth Year they are given a course of ten lectures on the elements of the subject in the University.

During the Final Year they receive clinical instruction on groups of cases presented for differential diagnosis, and they are required to discuss these cases and outline the treatment indicated. The teaching is carried out in the wards, the amphitheatre, and the G. U. Outdoor.

Opportunity is thus afforded for the complete study of a considerable number of cases.

Text-books:—Keyes' Urology.

Collateral Reading:—Thomson Walker's Genito-Urinary Surgery.

ORTHOPÆDIC SURGERY

CLINICAL PROFESSORS:—{W. G. TURNER. J. A. NUTTER.

LECTURER:—W. J. PATTERSON.

DEMONSTRATOR:—N. T. WILLIAMSON.

During the Fourth Year a series of ten didactic lectures is given upon the principles and the more important orthopædic conditions.

Instruction in diseases and injuries of the bones, joints, muscles and the surgery of deformities, both congenital and acquired, is given to the students of the Fifth Year in groups of ten to twelve in the Children's Memorial Hospital, the Royal Victoria and the Montreal General Hospitals.

Each student attends clinics in Orthopædic Surgery at one of these hospitals for ten consecutive weeks.

The demonstrations given are essentially practical. Every student is expected to write histories of, to make the diagnosis for, and to prescribe the treatment for, a definite number of patients.

In the Montreal General and the Royal Victoria Hospitals there are large clinics for both adults and children suffering from orthopædic affections.

In the Children's Memorial Hospital there is a great wealth of clinical material consisting of children who are suffering from the surgical diseases of infancy and childhood.

Text-books:—Whitman's Orthopedic Surgery; Fraser on Tuberculosis of Bones and Joints of Children; Tubby and Jones on Surgery of Paralysis; Jones, Orthopedic Surgery of Injuries; Jones and Lovett, Orthopedic Surgery.

OBSTETRICS AND GYNÆCOLOGY

PROFESSOR AND CHAIRMAN:—J. R. FRASER.

PROFESSOR:—H. M. LITTLE.

CLINICAL PROFESSORS:—H. C. BURGESS. J. W. DUNCAN. J. R. GOODALL.

LECTURER:—W. A. G. BAULD.

DEMONSTRATORS:—A. D. CAMPBELL. DOUGLAS GURD. G. C. MELHADO. IVAN PATRICK. ELEANOR PERCIVAL.

CLARA LAW FELLOW AND DEMONSTRATOR:—P. J. KEARNS.

Ninth Term (3rd Year).

1. A course of forty lectures on the fundamental principles of the subject, illustrated by diagrams, models and fresh and preserved specimens.

Four times a week—Spring Term.....Professor Fraser.

Obstetrics

Tenth to Twelfth Terms (4th Year).

2. Clinical instruction wil be given during the year in the Royal Victoria Montreal Maternity Pavilion, and will include ante-natal care in the Out-patient Department and the conduct of labour and the puerperium in the case-room and wards of the Hospital.

Twelve hours a week during one term.

Fifth Year.

3. Rooms are provided in the New Pavilion, where the students may reside, in groups of six, for a period of twelve to fourteen days. During his period of "interreship" the student will be expected to attend his out-door cases, and, under supervision, to deliver these women in their own homes.

Text-books:—Whitridge Williams; De Lee; Jellett & Madill—Ten Teachers.

Gynæcology

4. Theatre Clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals. Professor Fraser and Staff.

5. Practical instruction to small groups of students in the out-patient departments of the Royal Victoria and Montreal General Hospitals.

Text-books:—Hart and Barbour; Blair Bell; Dudley Hurst; Gilliam; Anspach; Crossen.

OPHTHALMOLOGY

PROFESSOR:—W. GORDON M. BYERS.

CLINICAL PROFESSOR::— G. H. MATHEWSON. S. H. McKEE. F. T. TOOKE.

DEMONSTRATORS:— A. G. McAULEY. J. A. MacMILLAN.

ASSISTANT DEMONSTRATORS:— A. BRAMLEY-MOORE. S. O. McMURTRY. STUART RAMSEY. J. ROSENBAUM.

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courss:—

Ninth Term (3rd Year).

1. **Routine examination of the eye.**

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours.

Professor Byers, with Drs. Tooke and McKee and members of the Staff.

Tenth to Twelfth Terms (4th Year).

2. **Lecture demonstrations.**

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential concepts for the clinical work of the Fifth Year.

Ten hours.....Professor Byers.

Thirteenth to Fifteenth Terms (5th Year).

3. **Clinical Ophthalmology.**

In the Final Year, the entire available time is devoted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main ophthalmoscopic findings in systemic disorders and affections of the nervous system; with practical lessons in ophthalmic nursing and first aid. This work is conducted in the ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals.

Professors Byers and Mathewson and Staff.

Text-books:—Parsons, May, Swanzy, De Schweinitz, Fuchs.

OTO-LARYNGOLOGY

PROFESSOR:—H. S. BIRKETT.

LECTURER:—HAMILTON WHITE.

DEMONSTRATORS:—D. H. BALLON. G. E. HODGE. J. T. ROGERS.

ASSISTANT DEMONSTRATORS:—K. O. HUTCHISON. A. E. LUNDON. W. J. MCNALLY. J. E. TREMBLE. B. F. MACNAUGHTON.

The course of instruction in Oto-Laryngology is carried on in the wards and out-patient departments of both the Montreal General and the Royal Victoria Hospitals, where, owing to the large clinics, the students are afforded ample opportunity of receiving practical instruction in these subjects. In these two hospitals there are about fifty beds set apart for this specialty.

The courses are designed to afford the student the opportunity of acquiring the oto-laryngological knowledge required by every general practitioner. The practical work is conducted in small groups, so that the personal instruction and supervision, so essential in this subject, are given to each student.

Tenth to Twelfth Terms (4th Year.

1. Introductory Course.

Group instruction in:—(a) The normal anatomy of the ear, nose and throat, as exemplified in moist dissections, dried specimens, models, stereoscopic plates and radiograms of normal conditions of the accessory sinuses of the nose and mastoid process; (b) the method of using the various instruments for examining the ear, nose and throat; (c) the usual tests for hearing; (d) the recognition of normal conditions of these special organs, as exemplified by clinical material. Professor Birkett and Staff.

2. Lecture Course.

Ten lectures upon the more common pathological conditions of the ear, nose and throat met with in general practice.

Professor Birkett.

Thirteenth to Fifteenth Terms (5th Year).

3. Clinical Oto-Laryngology.

A course of clinical instruction in the out-patient departments and wards of the hospitals. Professor Birkett and Staff.

Text-books:—Chevalier Jackson and Coates; St. Clair Thomson; A. Logan Turner; H. Tilley; Kerrison; Phillips; Barnhill.

GRADUATE INSTRUCTION

1. Any graduate who so desires may attend any of the regular courses given to students of the Final Year. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. **Special graduate work** is offered in every department, both in the laboratories and in the clinics, at any period during the year, provided the graduate is willing to assign himself for serious work to one service. Application for this privilege should be made to the Dean or to the Head of the Department in which the graduate desires to occupy himself.

Vide under heading of "Departments of Physiology, Pathology, Anatomy, Hygiene, etc."

3. **Course for Diploma of Public Health**: This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:—

(a) A course of lectures dealing in a comprehensive manner with the general principles of public health and preventive medicine.

(b) Bacteriology—a full practical course in general bacteriology, with special application to public health.

(c) (1) *Sanitary Chemistry*. Examination of air, water and water supplies in general, the commoner foods and beverages, sewage and sewage effluents, etc.; chemical investigations conected with trades and occupations; (2) *Physics*. General principles only in their application to hygiene.

(d) Practical public health work. An extended course under a M.O.H., affording facilities for instruction in public health relating to housing, factories, work-shops and industrial establishments, schools, waterworks, sewage plants, refuse distribution, abattoirs, dairies and milk stations, welfare centres, etc., etc.

(e) Public health legislation and administration. Statutes and by-laws relating to public health and the powers of health authorities; administration of the office of a Medical Officer of Health.

(f) Vital statistics. Calculation and tabulations of returns of births, marriages and deaths and diseases.

(g) Meteorology and climatology; geographical and topographical distribution of disease.

Candidates for this diploma may claim exemption in any of the above subjects on presentation of adequate certificates.

Qualification for the diploma includes a knowledge of communicable diseases, of child hygiene and mental hygiene, the use of meteorological, hygienic and sanitary apparatus.

The successful candidate must further know the appearance of healthy and diseased tissues of animals, and their microscopic examination.

Finally, he must show a capacity to formulate a report on public health conditions in an actual locality and make annual and other reports as required by Officers of Health.

These examinations are written, oral and practical.

The fee for the course, including the diploma, is $100.00.

4. Special Courses. Graduates desiring instruction in any special branch of Public Health and Preventive Medicine, such as School Health Services and Industrial Hygiene, should apply to the Department. Courses will be arranged suitable for the applicants, in order that they may receive full benefit from the time devoted to the course.

CLINICAL INSTRUCTION

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and geographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital.

Montreal General Hospital.

Children's Memorial Hospital.

Foundling Hospital.

Alexandra Hospital for Infectious Diseases.

Protestant Hospital for the Insane.

Royal Edward Institute for Tuberculosis.

The Maternity Hospital, from the teaching standpoint, is under the control of the University.

BUILDINGS

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184′ x 60′—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodious quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

THE PATHOLOGICAL INSTITUTE

This Building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology, Bacteriology and Medical Jurisprudence, and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. From the latter it draws chiefly its material. It was constructed at a cost of $460,000; is of Montreal lime stone; its main front is 242 feet long; the north end is 77 feet wide and the south end 60 feet. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

HOSPITALS

The Medical School is closely affiliated with a group of active general and special hospitals, the staffs of which are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 2,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 322

public beds. During 1928 it cared for 9,985 cases, while in its outdoor department 66,812 cases were treated. Many new additions have been made to the Hospital. A modern University Medical Clinic was established in 1924.

There were 288 post-mortems during 1928.

The number of resident physicians is 34.

The Royal Victoria-Montreal Maternity Pavilion, with 200 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 100 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. During the year 1928 the obstetrical service cared for 2,259 cases, with 2,075 confinements in the Hospital and 350 in the Out-patient Department, a total of 2,425. In the gynæcological section, 1,359 cases were admitted during the year.

There are 10 resident physicians.

The Montreal General Hospital is a general hospital for the treatment of acute diseases and contains 301 public beds. In 1928 there were 7,485 admissions to its wards. The large, reconstructed out-patient department, probably the finest in this country, treated last year 125,025 patients. Many modern additions to the original buildings have been made, and a large biochemical laboratory has been finished and completely equipped.

There were 444 post-mortems during the year.

The number of resident physicians is 40.

The Dental Clinic of the University, completed in 1921, has 50 dental chairs, and a hospital dental clinic unequalled anywhere.

The Western Division of the Montreal General Hospital—The Western General Hospital. A hospital for the treatment of acute diseases, with 59 public beds. It is hoped that this hospital will soon afford additional opportunities for teaching. The post-mortem and surgical material is now being used for teaching. During the year 1928 there were 1,926 admissions to the wards and 40,232 patients were treated in the out-patient department.

There were 38 autopsies during the year.

The number of resident physicians is 7.

The Children's Memorial Hospital has 115 public beds, and, in 1928, admitted 1,009 patients. The attendance at its out-door department

totalled 11,816 patients. This hospital, while primarily for orthopædic cases, now admits all varieties of patients, and enables the student to get a broad conception of pediatrics. Of special interest are the Departments of Remedial Gymnastics, the Open-air Pavilion, and the well-equipped out-patient service.

There were 59 autopsies during the year.

The number of resident physicians is 6.

A summer course, lasting four weeks, has for several years enabled students and practitioners to become acquainted with many of the most important phases of modern pediatrics.

The Montreal Foundling and Baby Hospital affords a large amount of clinical material for students, and gives special facilities for the consideration of infant feeding. There are 75 beds. In connection with this institution, there is a largely-attended Baby Welfare Clinic for mothers seeking advice as to the care of the normal child, and of themselves.

The Alexandra Hospital for Infectious Diseases, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 170 beds, and, in 1928, 1,411 patients were admitted to the hospital. There were 30 autopsies.

The number of resident physicians is 4.

The Protestant Hospital for the Insane at Verdun has 630 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of psychiatry with the teachers. Occupational therapy is emphasized.

The Royal Edward Institute—a dispensary for tuberculosis —offers adequate material for teaching students, in groups, the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

HONORARY LIBRARIAN:—DR. C. F. WYLDE.

ASSISTANTS: MISS EDITH ASHWORTH
MISS PAULINE M. CARRIERE
MISS C, DAVIDSON, B.A.
MISS EDITH R. GORDON
MISS BEATRICE V. SIMON

"The history of the Library is the history of the Faculty."
Professor Hall.

The Library occupies the central part of the Medical Building, the whole front of the second and third floors, as well as a portion of the first floor. On the third floor is the magnificent reading room, 76 x 24 feet, exceptionally well lighted, and capable of accommodating seventy-five readers. On this floor also are the journal room and private office. The second floor contains the stack room, the book stacks at present containing about 45,000 volumes, and having a total capacity of sixty thousand volumes; also three study rooms. On the first floor are the cataloguing rooms, offices and pamphlet room.

A special feature of the Library is the journal collection, and every effort is being made to complete this section as far as possible, and thus to increase the value of the reference department of the Library. Through the generosity of interested friends there is also a valuable collection of approximately one thousand volumes of early works on the History of Medicine, dating from the fifteenth century. These can be consulted at the Library.

A complete journal collection is listed in the Catalogue of Scientific Periodicals in Canadian Libraries, and also in the Union List of Serials, published by the W. H. Wilson Company.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other colleges showing proper credentials, and registered nurses. It is felt that graduates living at a distance are not aware of the fact that books may be borrowed from the Library on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during term from 9 a.m. to 9.30 p.m., except Saturdays, when it is closed at 5 p.m. After June 1st it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1 p.m. During July and August it is closed on Saturdays.

THE OSLER LIBRARY

LIBRARIAN:—W. W. FRANCIS.

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises about 7,600 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very useful lines, the catalogue has been completed, indexed, and printed since his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 875 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 136 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers; and the books may not be borrowed or removed from the Library.

MEDICAL SOCIETIES

1. THE McGILL MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers, are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly

interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Fourth and Fifth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

FACULTY OF LAW

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three-year course in Law, based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts course is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Quebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as the greater number of the works to which they will be referred are in that language.

REGISTRATION

All students must register in person at the office of the University Registrar between Wednesday, September 24th, and Tuesday, September 30th, 1930. First Year students who wish to consult the Dean personally with regard to their course should register not later than Friday, September 26th.

Students registering later than the prescribed dates will be required to pay a late registration fee of $5.00 during the first week of the session and $10.00 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

New students, immediately after completing their registration, are required to attend in the Dean's office.

DEGREE

The degree granted in the Faculty is that of Bachelor of Civil Law (B.C.L.). The course covers three years.

No student under the age of 21 years will be eligible for a degree.

The D.C.L. degree is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

MOOT COURTS

Under the supervision of the professors, moot courts are held from time to time during the session in order to afford students practice in the preparation and presentation of legal arguments. Regular attendance at these courts will receive credit as class-room work.

LIBRARY

The Law Library of the University at present contains over 12,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom and France are taken, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

Students in the Faculty are permitted to use the Library of the Court House, which contains in addition a large number of the principal American reports, both of the Federal and of the State courts. The general Library of the University is also available for the use of Law students.

OFFICE ATTENDANCE

The attention of students is directed to the amendment to the Bar Act passed at the 1925 session of the Quebec Legislature which reduces the period of clerkship to one year for students who have previously obtained a recognized degree in Law. Advantage has been taken of this to reorganize the Faculty on a full-time basis. The final Bar examination may be taken as soon as the student has been admitted to the study of Law and has taken his B.C.L. degree. For particulars as to Bar requirements, see page 403.

EXAMINATIONS

Examinations will be held:—

(a) At the end of the first session, covering the year's work.

(b) At the end of the second session, covering the second year's work, the final examination in Roman and Constitutional Law on the work of both years being held at this time.

(c) At the end of the course, on the work of the three years, except Roman Law. Constitutional Law and International Law.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take supplemental papers on the same subjects. A fee of $5.00 will be payable in respect of each paper. No other supplemental examinations will be granted.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CURRICULUM

FIRST YEAR

ROMAN LAW

Three hours throughout the session. Professor Corbett.

CIVIL LAW

(a) Persons and Property.
Two hours throughout the session. Professor LeMesurier.

(b) Obligations.
Two hours throughout the session. Professor Howard.

CRIMINAL LAW

One hour throughout the session. Professor Surveyer.

CRIMINAL PROCEDURE

One hour throughout the session. Professor Surveyer.

CONSTITUTIONAL LAW

One hour, one term. Associate Professor Scott.

INTERNATIONAL LAW

One hour throughout the session. Professor Corbett.

SECOND YEAR

ROMAN LAW

One hour throughout the session. Professor Corbett.

CIVIL LAW

(a) Sale, agency, partnerships, privileges, hypothecs and registration.
Two hours throughout the session. Professor LeMesurier.

(b) Marriage covenants, lease and hire, prescription and minor contracts.
Two hours throughout the session. Professor Chipman.

(c) Gifts, wills, substitution and successions.
One hour throughout the session. Associate Professor Scott.

LEGAL HISTORY

One hour, one term. Professor Corbett.

CONFLICT OF LAWS

One hour, one term. Professor MacDougall.

CIVIL PROCEDURE

One hour throughout the session. Professor Tyndale.

CONSTITUTIONAL LAW

One hour, one term. Associate Professor Scott.

MUNICIPAL LAW

One hour, one term. Associate Professor Scott.

THIRD YEAR

COMMERCIAL AND MARITIME LAW

(a) Corporations.

One hour throughout the session. Mr. Bruneau.

(b) Introduction to the study of Commercial Law and insurance.

One hour throughout the session. Mr. Claxton.

(c) Negotiable instruments and banking.

One hour throughout the session. Associate Professor Scott.

(d) Maritime Law and Carriers.

One hour throughout the session. Associate Professor Scott.

CIVIL LAW REVIEW

One hour throughout the session. Professor LeMesurier.

CIVIL PROCEDURE

Two hours throughout the session. Professor Tyndale.

EVIDENCE

One hour, one term. Professor Wainwright.

CRIMINAL LAW AND PROCEDURE

One hour, one term. Professor Surveyer.

SPECIAL LECTURES

The Hon. Mr. Justice Mignault will deliver two special lectures in the course of each session.

ADMISSION TO THE PRACTICE OF LAW IN QUEBEC

The attention of students who wish to be admitted to the Bar or to the notarial profession in Quebec is drawn to the following summary of the statutory provisions governing the practice of law in the Province:—

I. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME MEMBERS OF THE BAR

N.B.—The articles are here abridged.

R.S.Q., 1925, c. 210, Section 48.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council.

Section 50.—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

R.S.Q., 1925, c. 209, Section 2.—This section provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

R.S.Q., 1925, c. 210, Section 52 (as altered by by-law of the General Council).—On giving the notice prescribed by Section 50, the candidate pays the Secretary a fee of $2.00, and makes a deposit of $125.00 for a complete certificate of admission to study; of $70.00 for a partial certificate of admission to study; and $200.00 for admission to practice, which deposit, less $30.00, is returned in case of his not being admitted.

Section 57.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, *dating from the registration of the certificate of admission to study.* In the case of a student who has followed a regular law course in a university or college in this Province and taken a degree in law therein the term is reduced to three years, carried on concurrently with the law course, or to one year after having received the said degree.

The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51.—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school shall count with reference to the Bar Act only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma.

Article 52.—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:—

ROMAN LAW:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman jurisconsults.

CIVIL, COMMERCIAL AND MARITIME LAWS:—413 lectures:—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

CIVIL PROCEDURE:—103 lectures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the Civil Court of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

PUBLIC AND PRIVATE INTERNATIONAL LAW:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc., in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

CRIMINAL LAW:—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts, criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.

CONSTITUTIONAL AND ADMINISTRATIVE LAW:—41 lectures:—This course comprises an enquiry into the different constitutional enactments and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws of education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53.—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the Principal or Head of such university or law school establishing that he has followed a law course in such university or law school during at least three years, in conformity with the Bar Act, and, moreover, specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54.—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, 1925, ch. 211, Secs. 208-241.

FACULTY OF DENTISTRY

FOUNDATION AND HISTORY

The Dental Department of McGill University was established as a Department of the Faculty of Medicine in the autumn of 1903. At that time the didactic teaching and laboratory work were carried on in the lecture rooms and laboratories of the Medical Building, clinical instruction being given at the Dental Infirmary, a clinic conducted by the Dental Association of the Province of Quebec. This arrangement fulfilled the requirements of the Department for a time, but soon the need of separate quarters for didactic and laboratory instruction and also of improved clinical facilities was felt. These have been supplied, first, by the assignment to the Department of a portion of the east wing of the Medical Building, and, second, by the establishment of a clinic at the Montreal General Hospital.

The new quarters of the Faculty occupy the northern half of the first floor of the east wing of the Medical Building. Here are provided all the necessary lecture rooms and laboratories, as well as private rooms for the members of the staff. The laboratories are equipped with the latest apparatus and appliances for teaching practical dental operations.

The clinic at the Montreal General Hospital was established in connection with the out-patient department of the Hospital in the early part of the session 1908-09.

The rapid growth of the Faculty, however, soon made necessary the enlargement of the facilities for teaching Clinical Dentistry, and so in 1921 the University, acting conjointly with the Governors of the Montreal General Hospital, thoroughly remodelled the space used for the clinic, and in addition erected a new wing 80 ft. x 36 ft.—the entire wing being occupied by dental chairs and other equipment. This gives to the Faculty one of the most thoroughly equipped dental clinics on the Continent. In addition to the splendid equipment and facilities provided in the Hospital clinic, students of the Dental Faculty share with the other departments the advantage of the great Hospital with which it is connected, such as a splendid X-ray department and a well-managed pathological department. They also have the privileges of the surgical operating amphitheatre, and the Hospital anæsthetists are always available for operations.

ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the *Province of Quebec* it is essential that the candidate should take at least the second of these two years in a recognized English University in this Province.

Courses specially designed to meet these requirements are offered in the Faculty of Arts of McGill University, where a student may take the two years of study required, or the second of the two if they have satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given on pages 77 to 94.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the Dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before beginning the study of Dentistry. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their University course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

**Ontario.*—W. E. Wilmott, Toronto.
**Nova Scotia.*—Geo. K. Thompson, D.D.S., Halifax.
**New Brunswick.*—F. A. Godsoe, D.D.S., St. John.
**Prince Edward Island.*—J. S. Bagnall, D.D.S., Charlottetown.
**Manitoba.*—H. F. Christie, D.D.S., 626 Somerset Block, Winnipeg.
**Alberta.*—A. E. Hennigar, D.D.S., Herald Building, Calgary, Alta.
**Saskatchewan.*—L. J. D. Faskin, Regina.
Quebec.—Dr. Denis Forest, 3632 Park Ave., Montreal.
British Columbia.—Albert Brighouse, Vancouver.

* Members of the Dominion Dental Council.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a license granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this license a candidate must: (1) hold a matriculation certificate of the proper standard; (2) pass the examination set by the council, and (3) pay the local provincial registration fee.

The Secretary of the Dominion Dental Council is Major W. D. Cowan, M.P., Regina, Sask.

COURSE FOR THE DEGREE OF D.D.S.*

Candidates for the degree of D.D.S. must complete two years of predental training in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

FIRST YEAR

Anatomy (human).
Bacteriology.
Dental Anatomy.
Histology.
Physiology.
Metallurgy.
Prosthetic Technique.
Operative Technique.

SECOND YEAR

Anatomy (human).
Crown and Bridge Work.
Operative Technique.
Orthodontia.
Prosthetic Technique.
Pathology (General).
Physiology.
Pharmacology.
Medicine.
Biological Chemistry.

THIRD YEAR

Crown and Bridge Work.
Dental History, Ethics and Office Management.
Dental Jurisprudence
Dental Materia Medica and Therapeutics.
Operative Dentistry.
Orthodontia.
Prosthetic Dentistry.
Dental Radiography.
General Anæsthesia.
Dental Surgery.
Local Anæsthesia.
Materia Medica.
Dental Pathology.

FOURTH YEAR

Operative Dentistry.
Orthodontia.
Prosthetic Dentistry.
Oral Surgery.
Crown and Bridge Work.
Oral Hygiene.

* It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 50 per cent in each subject is required to pass, and 75 per cent for honours.

All examinations in each year must be passed before a student will be allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one will be admitted to the degree of Doctor of Dental Surgery who shall not have attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, shall be required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one will be permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination shall furnish testimonials of attendance on the branches of dental education mentioned on page 409, provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.

COURSES OF LECTURES

ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.

ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.

ASSOCIATE PROFESSOR OF ANATOMY:—JOHN BEATTIE.

LECTURER IN ANATOMY:—H. E. MACDERMOT.

LECTURER IN HISTOLOGY:—W. M. FISK.

SENIOR DEMONSTRATOR IN ANATOMY:—D. S. FORSTER.

DEMONSTRATORS IN ANATOMY:—
E. H. CAYFORD.
E. B. CHANDLER.
R. R. FITZGERALD.
R. M. H. POWER.
P. G. SILVER.
G. C. ANDERSON.
G. A. FLEET.
R. B. MALCOLM.
A. ROSS.
H. M. ELDER.
W. W. RUDDICK.
G. D. LITTLE.

The course covers two years, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. He is thus enabled to study in greater detail those parts which are related to his particular province, and he avoids spending undue time over regions which possess no special educational or professional value for him.

First Year:—The student takes the First Year medical course of three lectures and twelve hours' practical work a week during the first two terms, thus studying the body exclusive of the lower limb.

Second Year:—Opportunity is afforded of revising and studying in further detail the head and neck. A special dental course of advanced lectures on the face, palate and jaws is given by the Professor and Assistants.

Histology and Embryology.

First Year:—One lecture and one laboratory period per week throughout the session.

The course includes:—

(1) A survey of the general principles of embryology and of the early stages in the development of the human embryo.

(2) A detailed study of the fundamental tissues of the human body.

(3) A study of the development and microscopic structure of the organs and systems, in which the head and neck and the circulatory, digestive, and respiratory systems are considered in detail, whilst the remaining systems are treated in a more general way.

Text-books:—Gray's Practical Anatomy, Walmsley; *Histology*, Jordan, Noyes, Schafer's Elements, Bailey.

CROWN AND BRIDGE WORK

LECTURER:—W. C. BUSHELL.

A series of lectures and laboratory periods in the Third Year leading up to practical cases in the Fourth Year, accompanied by lectures and clinics.

The course embraces all phases of crown work, including porcelain jacket crowns, the preparation of teeth for their reception, the construction of the crown both as isolated units and as bridge abutments—principles of fixed bridgework, indications and contra-indications, stresses and strains, choice of abutments, construction of pontics.

Special attention will be given to the use of porcelain in bridge construction—removable bridgework; the various attachments and methods of assemblings; a complete course in the casting technique; inlays, both as fillings and as bridge abutments; cavity preparations (direct and indirect); methods of obtaining patterns; the various casting techniques.

DENTAL ANATOMY

LECTURER:—JOHNSTON W. ABRAHAM.

This course, given in connection with general anatomy in the First Year, is to give the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is required to carve in ivory sixteen teeth, representing all the forms in the human mouth, which are then articulated anatomically. These are used later on in his work in operative dentistry.

Different sections of extracted teeth are made, to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total one hundred and thirty hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; four hours a week to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—Black.

DENTAL HISTORY, ETHICS AND OFFICE MANAGEMENT

LECTURER:—CAMPBELL MORRIS.

History:—

This course is intended to give to the student an intelligent conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

Ethics:—

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner and himself.

Office Management:—

Under this head the business of the dentist's life will be considered. The question of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

DENTAL JURISPRUDENCE

PROFESSOR:—W. L. BOND.

In this course, the lecturer will discuss the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, etc., will be fully explained.

DENTAL SURGERY

ASSOCIATE PROFESSOR:—A. L. WALSH.

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicoectomy. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, excepting exodontia.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR:—FRED. G. HENRY.

In the Third Year a course of demonstrations and lectures in this subject is given, extending throughout the whole session. This comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances used in the treatment of diseased conditions of the dental organs and morbid conditions of the oral cavity, together with their various applications, doses, antidotes, and contraindications, with instruction in prescribing, etc. Anæsthesia and the various anæsthetics are also taken up, following that already given in the Second Year.

Text-books:—Hare, Buckley, Prinz; *Local Anæsthesia,* Arthur E. Smith.

METALLURGY

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

This course is given to Dental students of the First Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:—

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, "Practical Dental Metallurgy."

The laboratory course includes experimental work with the metals: gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Mr. Sproule.

OPERATIVE DENTISTRY

PROFESSOR:—F. H. A. BAXTER.
ASSOCIATE PROFESSOR:—A. L. WALSH.
LECTURER:—W. G. LEAHY.

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. This course of lectures extends over two years and a half, and includes discussion of the treatment of caries; the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use, a list of which will be furnished. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.

ORTHODONTIA

PROFESSOR:—A. W. MCCLELLAND.
LECTURER:—GERALD FRANKLIN.
DEMONSTRATOR:—M. L. DONIGAN.
ASSISTANT DEMONSTRATOR:—A. R. WINN.

The course in this branch will commence with the study of the dental organs during development and eruption.

Special attention will be given to the temporary teeth and the influence they exert in directing the normal occlusion of their permanent successors. The student will be directed to the importance of the study of the etiology of this subject, and its relation to the prevention and treatment of malocclusion. Cases deviating from the normal, typical of every variety met with in practice, will be dealt with and a classification made based on the treatment required.

The different methods employed in correcting these conditions will be fully demonstrated, together with the mechanical appliances used.

Ample clinical material is available at the Dental Clinic, where students in the final year will be allotted cases, the treatment of which will be carried on throughout the session.

Text-books:—Angle, Pullen, Dewey, McCoy.

PATHOLOGY AND BACTERIOLOGY

PROFESSOR OF DENTAL PATHOLOGY:—FRED. G. HENRY.
PROFESSOR OF PATHOLOGY:—HORST OERTEL.
ASSISTANT PROFESSOR OF BACTERIOLOGY:—A. A. BRUÈRE.
LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE.

Dental Pathology.

This course is given to the students of the Third Year, and includes a consideration of the various diseases of the enamel, dentine, dental pulp and peridental membrane, their symptomatology and treatment, also a consideration of abnormal conditions of the tissues of the oral cavity with a description of treatment and management of these diseases.

Special attention will also be given to pathological conditions of the nerve structures of the head and their connection with the diseased conditions of the dental tissues.

The mitigation of pain in dental operations receives special attention and the various means employed fully developed and explained, and such directions given as will enable the student to avoid methods and drugs harmful to the tissues.

Bacteriology.

A course of lectures upon bacteriology in relation to disease for students of the First Year; lectures given twice a week during the spring term.

A practical course in the bacteriology of infectious diseases for students of the Third Year. Two periods a week during the autumn term.

Text-books:—Dental Pathology and Pharmacology, Prinz, Endelman and Wagner and Black; Bacteriology, Muir and Ritchie, McFarland, Park, Connell.

PHARMACY

PROFESSOR:—ALEX. B. J. MOORE.

The course in Materia Medica and Pharmacy is given in the Third Year.

This course of about twenty-five lectures and demonstrations covers pharmacognosy, therapeutics and toxicology.

Pharmacopœias—B.P., U.S.P., B.P.C., and various hospital formularies;

Drugs—All organic and inorganic chemicals, such as:—alkaloids—glucosides, essential oils, stearoptenes, mineral salts, coal tar and its derivatives, animal products, synthetics, their sources and medicinal properties;

Therapeutical classification of drugs, such as:—anæsthetics, anodynes, antiseptics, caustics, hypnotics, hæmostatics, counter-irritants, etc., etc.;

Toxicology—Toxic doses of potent drugs with chemical and therapeutical antidotes; toxic drugs, their action and administration;

Habit-forming drugs—cocaine, heroin, morphine, etc.;

Posology—

Prescription Writing—Various systems of prescribing, symbols, correct abbreviations, incompatibility;

Pharmacy—nomenclature, metrology, specific gravty, percentage solutions, sterilization;

Pharmaceutical Preparations—tinctures, pigments, spirits, collodions, hypodermic injections, mouth washes, dentifrices, fluid extracts, tablets, etc.;

Methods of Manufacture.

Text-books:—Dixon, Cushny, Prinz.

PHYSIOLOGY

THE MORLEY DRAKE PROFESSOR:—JOHN TAIT.

RESEARCH PROFESSOR OF PHYSIOLOGY:—BORIS P. BABKIN.

ASSISTANT PROFESSOR:—N. GIBLIN.

DEMONSTRATOR:—W. H. FINNEY.

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry.

Text-books:—Huxley's "Lessons in Elementary Physiology"; Thornton and Smart, "Human Physiology."

PROSTHETIC DENTISTRY

PROFESSORS:—{ GEORGE S. CAMERON. J. S. DOHAN.

LECTURER:—I. K. LOWRY.

The course in prosthetic dentistry will embrace lectures, illustrated by lantern slides, and practical work in the laboratory, under the supervision of the demonstrator of technics. It will include the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student will be required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features. Students entering the Second Year will be required to complete ten days' laboratory technique work, which will begin on September 8th at 9 a.m.

Text-book:—Wilson.

PROSTHETIC TREATMENT OF CLEFT PALATE

OLIVER MARTIN AND I. K. LOWRY.

Practical clinics are given to Senior students on cases as they come through the Montreal General Hospital. These cases are carried through in the presence of the Dental students.

SURGERY

ASSISTANT PROFESSOR:—W. L. BARLOW.

The course comprises clinical and didactic lectures. All lectures and demonstrations are given in the wards and clinical theatre in the Outdoor Department of the Montreal General Hospital. Cases showing injuries and diseases of the mouth and jaws are demonstrated and the appropriate treatment shown, including operative procedures under local and general anæsthesia.

Text-books:—Oral Surgery, Blair and Ivy, 1923; Brophy's Oral Surgery; Dental Infections, Oral and Systematic, Weston Price, 2 Vols.

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General

Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions. The Dental Clinic, established fifteen years ago by the Hospital authorities, proved a success from the outset, and ample material for clinical study is now provided. Twenty thousand patients were treated at this clinic during the past session.

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates, four of whom are full-time members of the University staff. Anæsthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 6 p.m.; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties.

FACULTY OF MUSIC

FACTS OF HISTORICAL INTEREST

1904, September 21st	First day of teaching at the McGill University Conservatorium of Music. (Dr. C. A. E. Harris, Director.)
1904, October 14th	Conservatorium formally opened by their Excellencies, Lord and Lady Minto, First Recital.
1908, October	Dr. Harry Crane Perrin takes up his duties as Director of the Conservatorium and first Professor of Music in McGill University.
1909, February 23rd	First Orchestral Concert.
1910, February 17th	First Choral Concert.
1910, April, May, June	First Local Centre examination throughout the Dominion.
1910, June 9th	First Mus. Bac. Degree conferred.
1911, May 12th	First Mus. Doc. Degree conferred.
1917,	Conservatorium endowed by Sir William Macdonald.
1918, May 1st	Resignation (owing to illness) of Sir William Peterson, K.C.M.G., as Principal of the University.
1920, April 26th	The Governors of the University constituted a Faculty of Music with Dr. Perrin as Dean of the Faculty.
1920,	General Sir Arthur Currie, G.C.M.G., K.C.B., appointed Principal of the University.
1921,	Two Music Scholarships founded as a memorial to the late Sir William Peterson.
1922,	Two Music Scholarships founded as a memorial to the late Sir William Macdonald.
1923,	Conservatorium building becomes the property of the University by deed of gift from Lady Strathcona in accordance with the wishes of her father, the late Lord Strathcona.
1927, March 9th	Their Excellencies, Viscount and Lady Willingdon present at Beethoven Centenary Commemoration Orchestral Concert in Moyse Hall.
1928, November 19th	Schubert Centenary Commemoration Orchestral Concert in Moyse Hall.

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the season 1930-31 will begin on September 15th, 1930, and will end on June 13th, 1931. It consists of three terms of eleven weeks each, **with an additional summer term of three weeks, viz.:—**

(a) September 15th to November 29th.

(b) December 1st to February 28th (Christmas vacation, December 20th to January 4th inclusive).

(c) March 2nd to May 22nd (Easter vacation, one week).

(d) May 25th to June 13th (short summer term).

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the first week of October and extend over three terms of ten week each, viz.:—

(a) September 29th to December 6th.

(b) December 8th to February 28th.

(c) March 2nd to May 16th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 11th to May 22nd. The Theoretical Examinations which precede the Practical Local Examinations will be held on May 1st.

ADMISSION

Students of the Conservatorium will be admitted either at:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists will, at the discretion of the Director, be assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis, Ensemble Playing Vocalists will be assigned to two of the following classes:—Theory, Sight-Singing, Elocution and Diction, Choral Class.

Class Students. Those wishing to attend lectures or classes only, in either theoretical or practical subjects.

REQUIREMENTS FOR DEGREES AND DIPLOMAS

(For Fees, see page 140)

DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the Degree of Bachelor of Music, may proceed to the Degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony or a symphonic poem or tone poem for *any* combination of instruments occupying not less than forty minutes in performance. The works submitted will be judged according to the school of composition favoured by the candidate, whether modern or classical. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works. Such examination will include: Harmony up to eight parts; Counterpoint up to eight parts (strict and free); Instrumentation; Canon 4 in 2; Fugue up to five parts; History of Music; Form and Analysis of given symphonies, overtures, and either oratorio or opera.

Graduates of other recognized universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac. if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the executive of the Faculty of Graduate Studies and Research.

Full particulars can be obtained from the Registrar of the University.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).

3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c each.

The Matriculation Examination

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees will be examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music (musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh)—one paper. The paper set will be that of the Senior Grade of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University. Before being admitted to Undergraduate courses in Music, candidates must satisfy the Dean of the Faculty of Music that they are sufficiently advanced in their chief and second practical studies.

The requirements for examination in the chief practical subject will be those of the Senior Local Examination for the current year. In the second practical subject a Junior or even an Elementary grade will suffice. If the candidate has talent for and elects to take Composition during the Mus. Bac. course, the Intermediate Grade in one practical subject will be sufficient.

First Examination in Music

(a) Harmony in three and four parts.

(b) Strict Counterpoint up to three parts, and answers to Fugue subjects.

(c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form shown in the works of the classic composers.

(d) General outlines of musical history.

(e) Chief and second practical study. One of these may take the form of the composition of a song or songs, *or* a miniature suite for a sole instrument or any combination of instruments.

(f) Viva voce.

Second Examination in Music

(a) Harmony in not more than four parts.

(b) Counterpoint (strict and free) in not more than four parts.

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from the 16th century to the present day.

(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics *or* physiology of the voice.

(g) Chief and second practical study, *or,* instead of one of these, the composition of:—

(1) A movement in sonata form for pianoforte (or piano and violin, or any other combination),

or

(2) A choral movement with independent accompaniment,

or

(3) A suite for strings.

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Class I or Class III from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examinations, provided that they have matriculated.

Final Examination in Music

(a) Harmony up to five parts.

(b) Free Counterpoint, up to five parts, in 16th century style.

(c) Double Counterpoint in 8ve, 10th and 12th.

(d) Canon and fugue in three and four parts.

(e) History of music from the earliest time to the present.

(f) Form and analysis. Knowledge will be required of such works

as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera *or* an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner. Candidates should, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination papers in this subject will be based.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight of a short excerpt from an easy score of a classic composer.

(h) A composition to be sent in by the candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April, containing four-part chorus, a solo or duet, an unaccompanied quartet and a four-part fugue. The whole work (except the quartet) must be scored for stringed instruments in such a way as to show considerable independence between voices and instruments. If preferred, the composition may take the form of a string quartet or a piece of chamber music for not less than four instruments containing at least three movements.

(i) Viva voce.

REGULATIONS FOR THE DIPLOMA OF LICENTIATE OF MUSIC

(For Fees, see page 140)

Candidates may elect to be examined either in:—

Class 1—Theoretical Subjects and Composition, or

Class 2—Practical Subjects as Performers, or as

Class 3—Teachers in both Theory and Practice.

The following are the requirements of each branch:—

Cass 1—Theoretical Subjects and Composition

First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) Harmony in three and four parts up to and including chords of the ninth, passing notes and suspensions; also the Harmonization of a Melody.

(c) Counterpoint in two parts.

(d) Viva voce examination in rudimentary Composition and Extemporization.

N.B.—If candidates can produce certificates of having passed in the Highest Grade of the theoretical local examinations, they will be excused all but the last test, which can be taken at the same time as the second examination.

Second Examination

Requirements a, b, c, and d are the same as those for the First Examination for Mus. Bac. (See page 423.)

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination), or an arrangement for S.A.T.B. (unaccompanied) or three female voices (accompanied or unaccompanied) of any genuine folk-song. The parts must show character and independence. The M.S. should be sent in to be received by the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal, not later than the last day of the second week in April.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See page 424.)

(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); *or* (2) a Chorus with independent accompaniment; *or* (3) a Suite for Strings. This should be received by the Secretary not later than the last day of the second week in April.

(h) Viva voce.

Class 2.—Practical Subjects as Performers

First Examination

Candidates will be required to pass in the following subjects:—

(a) Rudiments of Music, including Sight Reading and Ear Tests.

(b) Harmony in three and four parts up to and including chords of the ninth, passing notes and suspensions, and harmonization of a melody.

(c) Counterpoint in two and three parts.

(d) General outlines of history.

(e) Easy Transposition Tests (for instrumentalists only).

(f) Diction in respect of Modern Languages (for singers only).

(g) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations. Candidates will be asked questions on the form of the works presented, as well as questions relating to keys and modulations.

Second Examination (Semi-Final)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, will be found under separate headings.

PIANOFORTE

(No written examination.)

1. *Scales.*

   Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, and 6th; also in double 3rds and double 8ves.

   The candidates must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch.

2. *Arpeggios.*

   Common chords, with hands either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also in double octaves, legato and staccato, beginning on either the highest or lowest notes; Dominant and Diminished 7ths in similar motion an octave apart, in contrary motion commencing either on the same note and working outwards, or on the extreme notes and working inwards. Also double octaves.

3. *Reading at Sight.*

4. *Transposition.*

   Of a short passage, a semi-tone above or below.

5. *Performance.* (Extra marks will be given for playing from memory.)

(a) One of the following Preludes and Fugues:—
Bk. I. B flat major, B flat minor, E minor.
Bk. II. E major, D minor.
...J. S. BACH

(b) Fifteen variations with Fugue in E flat (Op. 35),
or
Thirty-two variations, C minor (Op. 191).
BEETHOVEN

(c) Any one of the Novellettes, except No. 1.....SCHUMANN

(d) Etudes: Op. 25, Nos. 2 or 3 or 7
or
Impromptu in F sharp major.
.....CHOPIN

(e) Minstrels *and* La cathédrale engloutie.....DEBUSSY
or
Island Spell.....JOHN IRELAND
or
Kaleidoscope .....GOOSSENS

(f) A piece of the candidate's own choice.
Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.
Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination.)

1. *Scales.*

Any major scale, selected by the examiners in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings.
Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor common chords, dominant 7ths, and diminished 7ths in three octaves. No. 7 from Sevçik Violin School, Op. 1, Part III, may be presented for this test.

3. *Reading at Sight.*

4. *Performance.*

Candidates must prepare any two Etudes from each of the following composers:—Kreutzer, Fiorillo, Rovelli, Gavinies, and Rode, and also play one of the following Sonatas:—

Sonata in G (Op. 78).
Sonata in A (Op. 100).
Sonata in D minor (Op. 108). .....BRAHMS

5. *Questions.*

Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination.)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15.....J. L. DUPORT
Any two studies.....DOTZAUER
(From 24 Daily Exercises. Augener.)

3. *Reading at Sight.*

4. *Performance.*

(a) Suite No. 1.....J. S. BACH
(b) Sonato in E minor (Op. 38).....BRAHMS
or
Sonata in F (Op. 99).....BRAHMS
or
Sonata in A major (Op. 69).....BEETHOVEN

(c) Also any two of the following pieces:—

Seven Variations on a Theme from "The Magic Flute" (Op. 66).....BEETHOVEN
Two Poems .....HUGO ANSON
(Oxford Univ. Press.)
Slumber Song (arr. Harvey Grace).....BACH
(Oxford Univ. Press.)
Five Irish Folk Tunes.....HOWARD FERGUSON
(Oxford Univ. Press.)

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 677 Sherbrooke Street West, Montreal.

ORGAN

(No written examination.)

1. *Scales.*

(a) Manuals only (with both hands).
(b) Pedals only.
(c) One hand only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor, in keys of C, D flat, D, E flat, E, and F.
(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance* of either List A or List B.

List A.

Fugue in G (Jig).....BACH
(Vol. XII, Novello.)
Pièce Héroïque .....CÉSAR FRANCK
Prelude on a Theme by Tallis.....HAROLD DARKE

List B.

Toccata and Fugue in D minor.....BACH
Choral Prelude on the Old 104th.....PARRY
(The pedal tune to be played in octaves)
Rhapsody No. 1 in D flat.....HOWELLS

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination.)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed.

(For example, see Randegger's Singing Primer, pages 38, 41 and 48.) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primes, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Performance.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series.
Part I. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17, Fourth Series.

Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17, Fourth Series.

Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) One or two specimens of Recitative.

(b) Two solos from an Oratorio or Oratorios,

or

Two solos from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, SCOTT, IRELAND.

(d) One song by any of the following composers:—BALAKIREFF, GRIEG, HAHN, SIBELIUS, ARMSTRONG GIBBS, HOLST, VAUGHAN-WILLIAMS.

(e) One or two specimens of Folk Song from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

N.B.—The selections made will be taken as an indication of the candidate's taste.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.

Questions may be asked on the more advanced rudiments of music.

Third Examination (Final)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, will be found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*

The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on musical history from the 16th century to the present day.

4. *Performance.*

One of the specified items from each group to be prepared:

(a) Prelude and Fugue in F sharp major } Bk. I
Prelude and Fugue in C sharp major }

Prelude and Fugue in A flat major } Bk. II
Prelude and Fugue in D sharp minor }
Prelude and Fugue in C sharp minor }
French Suites Nos. 4, 5 or 6
...BACH

Fantasia and Fugue in G minor.....BACH-LISZT

(b) Any *two* of the following
Etudes: Op. 10, Nos. 1, 2, 7, 8
Op. 25, Nos. 6, 8, 10, 11
.....CHOPIN

(c) Concerto No. 5, Op. 73
Sonata in E, Op. 109
Sonata in E flat, Op. 81a
.....BEETHOVEN

Sonata in B minor .....CHOPIN

(d) Variations on "O Mistress Mine" (Novello).....BYRD
Variations in A.....GLAZOUNOW
(Omitting variations 4, 5, 12.)
Ballade in D major.....BRAHMS
Scherzo in E flat minor.....BRAHMS
Etudes Symphoniques
(Theme and any three Etudes).....SCHUMANN

(e) Reflets dans l'eau.....DEBUSSY
L'Isle Joyeuse .....DEBUSSY
Poissons d'Or .....DEBUSSY

Special Note.—In place of a selection from sections (d) and (e) the candidate may present César Franck's Prelude, Choral and Fugue.

3. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

4. *Performance.*

Of one piece from each of the following lists:—

(a) Prelude and Fugue in B minor.....BACH
(Novello: Bk. VII.)
Passacaglia and Fugue in C minor.....BACH
Sonata on the 94th Psalm.....REUBKE
Fantasia and Fugue in E minor.....KREBS

(b) Sonata in D flat .....RHEINBERGER
Sonata in C sharp minor .....HARWOOD
Concerto No. 4 (Second Set) .....HANDEL
(1st movement only.)
(Oxford Univ. Pres.)
Sonata in D minor (No. 6).....MENDELSSOHN
(Choral and Variations only.)

(c) Andante and Variations (Op. 46).....SCHUMANN
Prelude, Fugue and Variation.....CÉSAR FRANCK
Paean .....BASIL HARWOOD
Choral Fantasia (No. 1) on "O God Our Help".....PARRY

5. *Short Extemporization on a Given Theme.*

Optional test.

6. *Short Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is either Pianoforte, or Violin, or Violoncello, or Singing.

SINGING

1. *Performance.*

(a) Studies.

Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggios.....VITTORIO RICCI
Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI
Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI

(b) The solo work from part of an Opera (an act or scene), or the solo work from a whole Oratorio.

(c) Songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day.

4. *Chief Study.*

The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to specify satisfactorily other work on which any individual candidate shall be examined. The Examination Board will be prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

(a) As soloist for Concert Work only.

(b) As soloist for Light Opera.

(c) As soloist for Grand Opera.

(d) As soloist for Oratorio.

(e) As soloist for a combination of any of these.

Candidates should, *after passing the Second Examination,* submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. *Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte will exempt candidates from this test.

The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompaniment at first sight, will be accepted as second study.

CLASS 3. TEACHERS' EXAMINATION (THEORY AND PRACTICE).

First Examination

(Partly written and partly viva voce)

1. Advanced Rudiments, including sight-reading and ear tests.

2. A knowledge of harmony up to chords of the 7th. Analysis of given chords or passages, and harmonization of an easy melody and figured bass.

3. Chief Study.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Senior Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

N.B.—Sight reading tests and ear tests will be given in each part of this examination.

Second Examination (Semi-Final)

(Partly written and partly viva voce)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes. Special attention will be paid to the three-part writing.

2. Counterpoint in two parts.

3. General outlines of Musical History.

4. The principles of Elementary Form and Analysis.

5. Chief Study.

The requirements for this will be the same as for the Semi-Final Performers' Licentiate (see pages 427 to 432).

6. Second Study.

The requirements will be similar to those of the Senior Grade of the local examinations.

If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

Third Examination (Final)

(Written Examination)

1. Harmony and Counterpoint (Strict and Free) in not more than four parts.

2. Fugal Exposition in three parts.

3. History of Music from the 16th century to the present day.

4. Form and Analysis.

5. Some acquaintance with the principles either of the Physiology of the Voice or of Acoustics.

6. A paper on the Art of Teaching of the candidate's chief subject.

Special Note.—This paper will consist of *Set questions.*

Viva Voce Examination

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To demonstrate method of instruction as regards posture, finger-training, wrist and arm action, etc.

(b) To illustrate gradations of touch.

(c) To differentiate between mechanical and æsthetic expression.

(d) To explain the principles of fingering, and, if required, to finger passages.

(e) To distinguish between use and misuse of pedals.

(f) To illustrate good part playing.

If thought necessary by the examiner, a student (not a pupil of the candidate) will be in attendance, so that the candidate may more easily and effectually demonstrate his or her ability to deal in a practical manner with the above points, and any others which may occur.

2. Candidates must be prepared to play the following:—

(a) French Suite, No. 5 in G, or Prelude and Fugue in E major (Bk. 2) ..... BACH

(b) Sonata in D major (K. 576) ..... MOZART

Sonata in E flat (Op. 7) or Op. 53, Op. 54 or Op. 57 ..... BEETHOVEN

(c) Any two Ballades ..... BRAHMS
or any two Intermezzi ..... BRAHMS
or any two Rhapsodies ..... BRAHMS

(d) Any one of the Etudes ..... CHOPIN
and any one of Schubert's Four Impromptus, Op. 90, or Three Pieces ..... LEO LIVENS (Anglo-French Music Co.)
or Fairy Tales ..... MEDTNER

(e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture and fingering, also to finger and bow certain passages, if required.

2. Should the Examiner desire it, the candidate must be prepared to give a student (who must not be a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.

3. To differentiate between mechanical and æsthetic expression.

4. To show ability to accompany on the pianoforte.

5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORILLO, RODE, ROVELLI and GAVINES.

6. Performance.

(a) Any of the ten
Sonatas for Violin and Pianoforte.....BEETHOVEN
or Sonata in A .....VIVALDI
or Sonata in A minor (Op. 105).....SCHUMANN
or Sonata in A .....BRAHMS

(b) Any one of the following Concertos may be selected by the candidate:—
BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAËNS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

(c) Romance in E minor.....SINDING
or
Havannaise .....SAINT-SAËNS
or
Rhapsodie Piedmontèse .....SINIGAGLIA

7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:—

Nos. 11, 16 and 20 Studies.....DUPORT
And any two Studies.....DOTZAUER
(From 24 Daily Studies.)
Any one of the five Sonatas (selected by the candidate).BEETHOVEN
To show a general knowledge of the Six Suites.....J. S. BACH
Symphonic Variations .....BOËLLMAN
Romance .....WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.

2. To answer questions as to the causes of difference of tone between the various stops.

3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.

4. To be prepared to play the following pieces:—
A Sonata by BACH, also a Sonata by either MENDELSSOHN or RHEINBERGER or MERKEL, and two pieces by modern composers (one should be British) selected by the candidate.

5. Sight Reading Test.

6. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, unevenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

3. In passages given by the examiner, to phrase or insert breath marks.

4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—
(a) BACH, HANDEL, MOZART, BEETHOVEN, SCHUBERT, SCHUMANN.
(b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.
(c) BALAKIREFF, GRIEG, HAHN and DEBUSSY, DELIUS, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, RAVEL.
(d) Any Folk Song from "A Selection of Collected Folk Songs" arr. by C. SHARP and VAUGHAN-WILLIAMS (Novello).

5. Sight Reading Test (Vocal).

EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN THE ELEMENTARY SCHOOLS

Fee $10.00

THEORETICAL

The examination will be in two parts: (a) Written; (b) Viva Voce. In the written part of the examination a paper will be given dealing with the general questions on the teaching of class singing in an elementary school.

The paper will be divided into five parts: (a) Voice Training; (b) How to teach Sight Singing in the Movable Doh System, using Solfa syllables only, and on its application to the staff notation; (c) Ear Training; (d) The teaching of songs; (e) Questions on Musical Apciation *and methods of creating interest in music in the schools.*

As regards (b), emphasis will be laid on the mental effect produced when teaching tune, and on the use of time names when teaching rhythm in both notations.

The following text-books are recommended:—

"Voice Culture," Part I; Chaps. 1-3 inclusive.....BATES
(Published by Novello)

"The School Music Teacher," Chaps. 1-7 inclusive and Appendices II and III.....EVANS and MCNAUGHT
(Published by Curwen)

PRACTICAL (ELEMENTARY)

1. Sight Singing.

   Two tests will be given, one in Solfa syllables only and one in Staff Notation, containing leaps to any note of the diatonic scale, with a transition to either 1st sharp (dominant) or 1st flat (sub-dominant) key, and containing chromatic notes introduced stepwise. Only the following divisions of the beat will be used, half-beat, three-quarters and a quarter, with some sustained notes. In Staff only the following time-signatures will be used, 2/4, 3/4, 4/4, 6/8. One of the tests will be in the minor key, containing the sharpened sixth and seventh. (Not more than three attempts will be allowed, and the last time the test must be sung to la.)

2. Time.

Two tests will be given, one to Solfa syllables and one in Staff Notations, to be sung first to time-names and then to a monotone. (Two attempts allowed.)

In 2/4, 3/4 and 4/4 time (two, three and four pulse measure). The beat may be divided into halves, triplets or any division containing one or two quarters. In 6/8 time (six-pulse measure) the more minute divisions of the beat will not be givn.

3. Ear Test.

(a) The candidate will write down in either notation a short phrase of not more than six notes. The name of the key will be given and the tonic chord (d.m.s) sung each time.

(b) The time names of a short passage will be asked and the passages must be written down in either notation. The tempo will be given. (Two attempts allowed.)

4. Candidates must be prepared to write on a black-board, as for a class, a short sight-singing test in both notations.

NOTE.—Candidates must be in possession of a certificate showing they have passed the Junior Grade in Pianoforte of McGill Local Examinations in Music.

EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN HIGH SCHOOL OR COLLEGIATE INSTITUTE

Fee $15.00

PART I (THEORETICAL)

A paper will be given demanding a more comprehensive knowledge of the methods and principles involved in the teaching of class singing. This paper will be divided into the same number of sections as the elementary paper, the following text-books being recommended for information:—

"Voice Culture," Part I (published by Novello).....BATES
"The Singing Class Teacher" (published by Williams).FIELD HYDE

PART II (PRACTICAL)

1. Sight Singing.
   Two tests will be given, one to Solfa syllables and one in Staff Notation, containing more difficult leaps as well as leaps to chromatic notes with a transition to some more remote key. One of the tests will be in the minor key containing a transition. (Not more than three attempts will be allowed and at the last attempt the test must be sung to la.)

2. Two tests will be given, one to Solfa syllables and one in Staff Notation, sung to time-names and then to la. (Two attempts allowed.) The pulse will be divided into more minute divisions, and syncopation will be introduced.

3. Ear Test.
   (a) The candidate will write down in either notation, in time and tune, a short melody. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.
   (b) The time-names of a short passage will be asked and the passage must be then written down in either notation. The pulse will be more divided than in the elementary grade. The tempo will be given. (Two attempts allowed.)

4. Three school songs must be chosen and prepared by the candidate and sung to his or her own accompaniment. Two of the songs should be of the folk-song and one of the art-song type. Correct voice production and interpretation will be a necessity.

NOTE.—Candidates must be in possession of a certificate showing they have passed the Intermediate Grade in Pianoforte of McGill Local Examinations in Music.

LOCAL CENTRE EXAMINATIONS IN MUSIC

(For Centres with Hon. Local Representatives, see pages 46 to 49.)

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and a Diploma of Licentiate, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Mr. Douglas Clarke, Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 677 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local hon. representatives or local hon. secretaries. (See pp. 46 to 49.)

2. A local representative of McGill University will supervise the conduct of the theoretical examinations at each centre. All papers will be sent to McGill University itself, and, in the case of the local examinations, examined by a Board consisting of at least three examiners.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the School.

5. Similar arrangements may be made with regard to Class Singing.

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. Examinations will be arranged by the Secretary when required, and new centres formed where not less than ten candidates are entered, provided the amount of fees is sufficient to meet the expenses incurred.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Lowest or Primary grade and leading on through the Diploma examination for Licentiate of Music to that for the Degree of Mus. Bac.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual grade book selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

4. Books for past years, which contain well-assorted standard studies and pieces, will be found useful by teachers and pupils alike, whether for repertoire study, reading at sight, or analysis purposes. Price, 50c. per book, obtainable from the General Secretary.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations will be held throughout the Dominion about May 1st, 1931. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination will be found under fees on page 453.

2. Practical examinations will be held during May and June, 1931.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, MUST REACH THE SECRETARY IN MONTREAL ON OR BEFORE APRIL 1st, 1931.

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects. They will be of two kinds in each grade: (a) Distinction; (b) Pass.

N.B.—In the case of a candidate failing the theoretical but passing the practical part of an examination, *no* result will be published, neither will a certificate be granted, until the theoretical part has also been passed.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks obtainable in each practical subject is 100, of which 60 entitles to a Pass and 80 to a Distinction.

7. The maximum number of marks obtainable in each theoretical subject is 100, of which 60 entitles to a Pass and 80 to a Distinction.

8. No special text-books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. For the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from the various local music dealers.

9. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

10. Candidates entering for practical subjects must, in all grades except the two last (Elementary and Primary), previously work a theory paper of the preceding lower grade during the same year or the preceding year.

11. Only one candidate at a time is allowed to be in the examination room for practical examinations.

12. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

13. The examiner's decision is final, and cannot be reconsidered.

14. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.

15. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diploma of Licentiate in Music, should they at a later date decide to proceed to the higher examinations for that Diploma.

LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, will be held at these centres:—

Amherst ..... Hon. Representative: Rev. F. L. Orchard, 1 Rupert St.
Hon. Secretary: Mrs. Geo. R. Shiers, 35 Roby St.

Assiniboia ..... Hon. Representative: W. E. Hay, Esq., Superintendent of Schools.

Brandon ..... Hon. Representative: Principal of Brandon College Institute.

Brockville ..... Hon. Representative: Rev. Dr. Whalley, The Rectory, Park St.
Hon. Secretary: Mrs. M. MacOdrum, West Pine St.

Calgary ..... Hon. Representative: A. Calhoun, Esq., City Librarian, Public Library.
Hon. Secretary: George E. Bower, Esq., L.Mus. (McGill), 1036 Fifth Ave. W.

Campbellton ..... Hon. Representative: Judge F. F. Matheson.

Charlottetown ..... Hon. Secretary: W. E. Fletcher, Esq., 63 Upper Prince St.

Cranbrook ..... Hon. Representative: Principal of the High School.
Hon. Secretary: Mrs. D. Finlayson.

Edmonton ..... Hon. Representative: Hon. A. C. Rutherford, 11153 Saskatchewan Drive.
Hon. Secretary: Mrs. O. J. Walker, 11103 Saskatchewan Drive.

Fernie ..... Hon. Representative: Mrs. H. J. Johnson.
Hon. Secretary: Miss S. E. West.

Fort Qu'Appelle ..... Hon. Representative: W. H. Thompson, Esq.

Fredericton ..... Hon. Representative: Dr. H. B. Bridges, Principal of the Normal School.
Hon. Secretary: W. J. Smith, Esq., A.R.C.O., 679 Union St.

Glace Bay ..... Hon. Representative: Rev. A. MacLeod, Presbyterian Church Manse.
Hon. Secretary: Miss B. McGregor.

Gladstone ..... Hon. Representative: Dr. E. H. Whelpley.
Hon. Secretary: David B. McHardy, Esq., 200 Manderville St., Winnipeg.

Granby ..... Hon. Representative: Ven. Archdeacon Longhurst.
Hon. Secretary: Miss Gertrude Wallace.

Halifax ..... Hon. Representatives; Rev. S. H. Prince, Cobourg Road; Rev. J. A. Ibbott, 29 Inglis St.
Hon. Secretary: Miss Ada Hoyt, 3 College St.

Indian Head ..... Hon. Representative: Mrs. H. G. W. Wilson.
Hon. Secretary: Cecil C. Halleran, Esq., L.Mus. (McGill).

Kerrobert ..... Hon. Representative: J. M. Hanbridge, Esq., Barrister.
Hon. Secretary: Mrs. R. H. Johnston.

Iroquois Falls ..... Hon. Representative: C. Cameron, Esq.
and
Ansonville ..... Hon. Secretary: H. F. Schroeder, Esq.

Kimberley ..... Hon. Secretary: Miss Janet McKay.

Lethbridge and MacLeod.. Hon. Representative: A. J. Watson, Esq., Supt. of Schools, Central School.
Hon. Secretary: Mrs. Donald White, L.Mus. (McGill), Box 507 MacLeod.

Macgregor ..... Hon. Representative: Rev. J. R. Johns.

Maxville ..... Hon. Secretary: Miss Netta McEwen.

Medicine Hat ..... Hon. Secretary: Mrs. F. Duckworth, 543 Athabasca St. W., Moose Jaw.

Monckton ..... Hon. Representative: Rev. J. A. Ramsay, The Manse, Alma St.
Hon. Secretary: Geo. Ross, Esq., Mus. Bac.

Moose Jaw ..... Hon. Representative: A. H. Gibbard, Esq., City Librarian, Public Library.
Hon. Secretary: Chas. F. Nidd, Esq., 1127 Third Ave. N.

Nelson ..... Hon. Representative: H. E. Dill, Esq., 418 Mill St.

Newcastle ..... Hon. Representative: Rev. L. H. MacLean.
Hon. Secretary: Thos. A. Moir, Esq.

New Glasgow ..... Hon. Representative: Mrs. J. T. McLeod, Stellarton.
Hon. Secretary: R. G. Humphreys, Esq.

Ottawa .....Hon. Representative: Dr. Duncan Campbell Scott, Government Offices, Booth Bldg.
Hon. Acting Secretary: Kenneth R. Meek, Esq., L.Mus., 72 Metcalfe St.

Pembroke .....Hon. Secretary: Miss E. Moore, R.R. No. 1, Pembroke, Ont.

Penticton .....Hon. Representative: Rev. Canon G. Thompson.
Hon. Secretary: Miss Monica L. Craig, L.A.B.

Peterboro .....Hon. Representative: Rev. Dr. Blagrave.
Hon. Secretary: F. G. Mann, Esq., 186 Dublin St.

Pictou .....Hon. Representative: C. L. Moore, Esq., Picton Academy.
Hon. Secretary: Miss Eva Skinner, Box 222.

Pictou Academy .....Hon. Representative: C. L. Moore, Esq., M.A.
Hon. Secretary: —. ————.

Quebec .....Hon. Representative: Dr. G. W. Parmelee, Parliament Bldgs.
Hon. Secretary: Capt. Charles O'Neill, Mus. Doc., The Citadel.

Regina .....Hon. Representative: President of Regina College.
Hon. Secretary: H. J. Record, Esq., 3327 Dewdney Ave.

Renfrew .....Hon. Secretary: F. W. Hopson, Esq.

Rothesay .....Hon. Representative: Rev. J. H. A. Holmes.
Hon. Secretary: Miss A. Davidson, L.Mus. (McGill).

St. John .....Hon. Representative: Rev. C. Gordon Laurence, M.A., 50 Orange St.
Hon. Secretary: J. S. Ford, Esq., 6 Germain St.

Saskatoon .....Hon. Representative: W. A. Gilchrist, Esq., Canada Bldg.
Hon. Secretary: Geo. C. Palmer, Esq., 652 University Drive.

Sherbrooke .....Hon. Representative: H. G. Hatcher, Esq., M.A., 15 Cambridge Ave.
Hon. Secretary: John W. Blackburn, Esq., Mus. Bac., 12 Magog St.

Stellarton .....Hon. Representative: Mrs. J. T. McLeod.
Hon. Secretary: L. N. Miller, Esq., L.Mus. (McGill).

Sydney .....Hon. Representative: Rev. A. H. Campbell, 58 Falmouth St.
Hon. Secretary: W. Rains, Esq., 154 Bentinck St.

Timmins .....Hon. Representative: E. J. Dickson, Esq., Magor.
Hon. Secretary: Mrs. J. H. Faithful, Timmins College of Music.

Three Rivers .....Hon. Representative: Rev. J. R. MacLeod, B.A.

Truro .....Hon. Representative: David Soloan, Esq, Ph.D.
Hon. Secretary: H. A. Wellard, Esq.

Vancouver.....Hon. Representative: G. E. Robinson, Esq., B.A., British Columbia University.
Hon. Secretary: —. ————————.

Vernon .....Hon. Representative: Mrs. De Beck.
Hon. Secretary: Miss Bertha Dillon, L.Mus. (McGill), Box 704.

Victoria .....Hon. Representative: Principal of the High School.
Hon. Secretary: Dr. J. E. Watson, 1002 Fort St.

Winnipeg .....Hon. Representative: John Parton, Esq., 356 Main St.
Hon. Secretary: D. B. McHardy, Esq., 200 Manderville St., Winnipeg.

Wolseley .....Hon. Representative: —. ————————.
Hon. Secretary: Mrs. Anna P. Thomson.

Yarmouth .....Hon. Secretary: Miss B. A. Posamonick, c/o Mrs. J. J. Clarke Robins, Willow St.

FEES FOR LOCAL EXAMINATIONS

1—Theory of Music (when taken as a Special Subject)

Highest Grade	$ 9.00
Senior Grade	5.50
Intermediate Grade	4.00
Junior Grade	3.00
Elementary Grade	2.00

2—Practical Subjects

Highest Grade, *including fee for Theory*	$12.00
Senior Grade, *including fee for Theory*	10.00
Intermediate Grade, *including fee for Theory*	7.50
Junior Grade, *including fee for Theory*	6.00
Elementary Grade	3.50
Primary (or Lowest) Grade	2.50

3—Supplementary Theoretical Examination

Fee for the three highest grades	$ 2.00
Fee for the two lowest grades	1.50

4—General School Examination

Fee, $20.00 for first hour and $10.00 for each succeeding hour. (One examiner.)

5—Class Singing Examination

Fee, $10.00 per class. (One examiner.)

LOCAL CENTRE EXAMINATIONS IN THEORETICAL MUSIC

For full particulars, see separate Announcement.

FACULTY OF GRADUATE STUDIES AND RESEARCH

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all the courses leading to the higher degrees and recommends candidates for these degrees.

The members of the Faculty are the Deans of the other University Faculties and all Professors and Associate Professors who conduct advanced courses of study or who superintend advanced research work offered to students registered for the degrees awarded by the Faculty. Other members of this University may be elected members of the Faculty in full session upon proper notice of motion.

There are two main divisions of the Faculty, known as "The Arts Division" and "The Science Division," respectively. The Arts Division includes the following departments of study, viz., Classics, Economics and Political Science, English, Germanic Languages, History, Music, Oriental Languages, Philosophy, Romance Languages, Sociology and Theological Studies. The Science Division includes all other departments of study represented in the Faculty. The Departments of Mathematics and Psychology are, however, members of both divisions.

These divisions have full power to discuss all matters and to make all rules and regulations affecting the admission of students to their departments and the requirements for all degrees awarded for work in these departments. Each division shall meet at least once annually in the month of April for the election of officers and of committees and for general business.

Each division of the Faculty elects annually a Divisional Committee of not less than four, and not more than eight, including the Dean; the one to be called "The Committee of Graduate Studies in Arts," and the other "The Committee of Graduate Studies in Science." These committees, subject to the dirction and approval of their proper divisions, examine and pass upon the academic records of all students, including lectures, seminars, and all other forms of graduate study. When the Dean of the Faculty has any doubt that a student's qualifications for admission or his subsequent record is entirely satisfactory, he shall call these cases specially to the attention of the proper committee for its decision. These committees also recommend all candidates for degrees to the Faculty in full session.

The Dean is a member, and chairman, of both divisions, and of all general committees of the Faculty, and all meetings thereof are called by him or under his direction.

There is an Executive Committee of the Faculty, consisting of the Dean and two members appointed by and from each Divisional Committee; this committee, subject to the direction and approval of the Faculty, deals with all matters of general policy and over all executive matters as, for example, the annual calendar, the preparation of the annual announcement, finances, fees, registration, and all matters of routine.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any university of recognized standing. These students are generally those who have at least second class honour standing or the equivalent of at least second class honours from McGill University in the subject in which they desire to take their major work. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

REGISTRATION

Application for registration as a graduate student should be made to the Dean of the Faculty of Graduate Studies and Research. The application should be made in triplicate on special printed forms which may be obtained at the Dean's Office.

Candidates must consult the department or departments in which they intend to study regarding the course they desire to pursue, in time to attend the regular courses of instruction which begin on October 1st, 1930. Formal application for permission to attend courses must be filled up by the student, and signed by the head or heads of these departments and by the professors under whom the applicant intends to study, and filed with the Dean of the Faculty as early as possible, and at the latest October 8th.

The applicant will give the necessary information with reference to the courses of undergraduate study which he has followed, his standing in the major subject or subjects, his degrees, and in cases of other than McGill graduates, a registrar's certificate of his academic standing from his college or university. As soon as the candidate's course has been approved by the division of the Faculty concerned, he must register without delay at the offices of the University Registrar. He will not be given credit for attendance until he does so. Candidates whose courses extend for more than one year *must register at the commencement of each year of their course. If not registered at the beginning of the academic year, as provided above, the candidate shall not be eligible for the degree at the following Spring Convocation.*

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Science in Agriculture, Master of Commerce, Doctor of Philosophy, Doctor of Civil Law, Doctor of Literature, Doctor of Science, Doctor of Music.

RESIDENT GRADUATE STUDY

The instruction given in the Graduate Faculty includes lectures, seminars, colloquia, tutorial classes, laboratory and library instruction and research work. Each student, in addition to his thesis requirements, shall receive an adequate amount of course work instruction; the requirements differing with varying departments. The amount of this work will be designated by the major department concerned, with the approval of the Divisional Committee and if necessary of the Faculty. The student may take any number of years he chooses more than the minimum in order to complete these requirements.

Members of the teaching staff of the University, who are also students in the Graduate Faculty, and who give more than three hours of lectures or six hours of conference work or twelve hours of supervisory work in the laboratory per week, or any student doing the equivalent amount of work inside or outside the University, may not obtain a Master's degree in one year, and will require at least four years for the degree of Ph.D.

No full-time student registered in any professional Faculty of the University may register for a Graduate Degree without the special leave of both Faculties in full session.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

WOMEN STUDENTS

Women students registering in this Faculty are invited to call at the Royal Victoria College for information concerning the following:—

1. The Alumnæ Society of McGill University, for membership in which they are eligible.

2. The University Women's Club, 3492 Peel St. (including residence accommodation), for membership in which they are eligible.

3. The Monteregian Club, 3426 McTavish St., for women engaged in educational work and others (including residence accommodation), for membership in which they are eligible.

They can also obtain from the Secretary of the Royal Victoria College the addresses of boarding houses in Montreal, and they may, if they wish, make arrangements to obtain luncheon in the College.

GENERAL RULES

1. Candidates for admission to the study of a degree shall hold at least second class Honours or the equivalent of second class Honours from McGill in the subject or subjects which they propose to study. Candidates who cannot comply with these requirements shall spend at least one preparatory year devoted mainly or wholly to advanced undergraduate study in these subjects at the University.

(For special regulations for the M.A. degree in Education, see page 486.)

2. Candidates should, when possible, be given an opportunity to conduct classes or conferences of their own, and the department or departments in which they are working should note their aptitude for this kind of work.

3. All departments should have full liberty to recommend their students to follow classes in other departments, either as part of the work of their own departments or as additional work. They may also recommend their students to attend classes in other departments, either with or without examination.

4. All departments should make careful reports from time to time of the work being done by students in their departments, as these reports may be of great value to the University and to the student in the future.

REGULATIONS FOR DEGREES

REGULATIONS FOR THE DEGREE OF M.A.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following departments of study, which rank as "subjects":—

Biology.
Chemistry.
Chemistry, Agricultural.
Economics and Political Science.
Education.
English Language and Literature.
Geology.
Germanic Language and Literature.
Greek Language and Literature.
Latin Language and Literature.
Mathematics.
Oriental Languages.
Physics.
Philosophy.
Psychology.
Romance Language and Literature.
Sociology.
History.

Certain Theological studies may be taken as a minor subject only. See page 525.

The requirements for the degree are as follows:—

1. Candidates must hold the degree of B.A. with at least second class Honours from McGill University or its equivalent.

2. One or two subjects may be taken.

3. Candidates must select one major subject. A minor subject may be selected with the consent and approval of the Head of the Department in which the major subject is taken, subject to the advice and agreement of the Head of the Minor Department. The candidate shall pass an examination in each of the subjects of his course.

4. The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Head of the Department concerned and to the Divisional Committee concerned for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 464.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE (M.Sc.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following departments of study, which rank as "subjects":—

Anatomy.
Bacteriology.
Bio-chemistry.
Botany.
Chemistry.
Chemistry, Agricultural.
Mechanical Engineering.
Metallurgy.
Mining.
Pathology.
Pharmacology.
Physics.

Electrical Engineering.
Engineering Physics.
Entomology.
Experimental Medicine.
Fuel Engineering.
Geodesy.
Geology and Mineralogy.
Highway Engineering.
Hydrodynamics and Hydraulics.
Mathematics.
Physiology.
Plant Pathology.
Theory of Elasticity, Strength of Materials and Theory of Structures.
Theory of Machines and Machine Design.
Thermodynamics and Theory of Heat Engines.
Zoology.

The requirements for the degree are as follows:—

1. Candidates must hold the degree of B.Sc. with at least second class Honours, or B.A., M.D., with second class Honours, or M.D., in certain cases of exceptional distinction in the Medical course.

2. The course of study followed by the candidate shall be of an advanced character, being the equivalent of that required for the degree of M.A., and shall lie in the domain of pure or applied science. It may be selected from any one or (at the discretion of the Head of the Department in which the major subject is) two subjects included in the list given above. This course of study, which must be of a comprehensive character, must have been previously submitted to the Head of the Department and to the Divisional Committee concerned, and have received their approval in writing. The candidate shall pass an examination in each subject of his course.

3. The candidate shall also present a thesis on some subject connected with his course of study. The title of the thesis must have been previously submitted to the Head of the Department and to the Divisional Committee concerned, and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 464.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE (M.S.A.)

Instruction in the Faculty of Graduate Studies and Research, leading to the degree of M.S.A., is provided in the following departments of study at Macdonald College (Faculty of Agriculture):—

Agronomy.
Agricultural Bacteriology.
Agricultural Chemistry.
Entomology.
Plant Pathology.

The requirements for the degree are as follows:—

1. Candidates for this degree must hold a B.S.A. degree with at least second rank Honours from McGill or its equivalent.

2. Candidates must take one year of resident graduate study at Macdonald College, Faculty of Agriculture, McGill University.

3. One or two subjects may be taken.

4. When two subjects are taken, one of them shall be designated as the major subject, and special attention shall be paid to it. It must be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.S.A. degree.

5. The course of study selected by the student must receive the approval, in writing, of the Heads of the Departments concerned and also of the Divisional Committee concerned.

6. The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Divisional Committee concerned, and the Head of the Department concerned, and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

For further information regarding theses, see page 464.

7. Candidates for the M.S.A. degree who select Agronomy may register in September or January. In the latter case they will be expected to remain in residence until the end of September, and application must be made before February 1st. It is recommended that one summer be spent in the Agronomy Department, before or during the course, to allow for practical, field, laboratory and thesis work during the growing season.

THE DEGREE OF MASTER OF COMMERCE (M.Com.)

The regulations for this degree will be issued at a later date.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

1. Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.S.A. with Honours, or M.D. with Honours from McGill University or its equivalent.

2. They must follow a course of at least three years' resident study at a University or other institution of higher learning or research. Of these three years, at least one year for graduates of McGill and two years for candidates who are not graduates of McGill, must be spent at this University, including preferably the final year. The other years may be spent at institutions approved by the Faculty. Special exceptions regarding resident study may be made with the consent of the proper Divisional Committee and the Faculty. The evaluation of work done in other institutions for the degree shall be decided by the proper committee of the Division of the Faculty, and this committee may require the student to attend before them to report on his work, and may require him to pass a special examination on his work.

3. They must select one major subject. A minor subject may be selected, with the consent and approval of the Head of the Department in which the major subject is, subject to the advice and agreement of the Head of the Minor Department.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Bacteriology.	Oriental Languages.
Bio-chemistry	Pathology.
Botany.	Pharmacology.
Chemistry.	Physics.
Economics and Political Science.	Physiology.
Experimental Medicine.	Plant Pathology.
Geology.	Psychology.
History.	Zoology.

In special cases, Heads of Departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Faculty of Graduate Studies and Research, asking whether courses in such subjects can be provided.

4. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Heads of the several Departments concerned and to the Divisional Committee concerned, and have received their written approval.

5. Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German.

The examination shall be set by the Department in which the candidate is taking his major; the passages chosen will be typical of the literature of his major subject. The Departments of Romance and Germanic Languages will act as examiners. The Departments concerned may conduct the examination if they so desire.

Candidates are advised to take one language at the commencement of their first year and the other at the commencement of the second year, but both language tests should be passed not later than one month before the preliminary Ph.D. examination.

6. The first two years shall include instruction, training and direction in his field of study, with the object of giving the candidate a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation.

The candidate's preliminary examination shall be held at the end of the second year, or at a time selected by the Head of the Major Department. This examination shall cover all graduate work previously taken by the candidate, including his prescribed reading, and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination shall be both written and oral.

The result of this examination will determine whether the candidate will be allowed to proceed to his degree. The final year is to be devoted chiefly to the preparation of his thesis or dissertation.

After his thesis has been received and approved, a special and more searching oral examination on the subject of his dissertation and subjects more intimately related to it will constitute his final examination. This will be conducted in the presence of a committee of at least four of the Faculty of Graduate Studies.

7. The thesis for the Doctor's degree shall display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Head of the Department in which the major subject lies, and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination.

Theses for the Fall Convocation must be in the hands of the Dean of the Faculty on or before September 3rd.

8. Three copies of the thesis must be provided by the candidate.

9. For the special regulation regarding the Ph.D. Thesis in Economics, see page 485, and for further information regarding theses generally, see page 464.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF LITERATURE (D.Litt.)

Bachelors of Arts of McGill University who are graduates of at least seven years' standing, and who have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Literature. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

Bachelors of Arts, Bachelors of Science or Doctors of Medicine of McGill University who are graduates in one or other of these Faculties of at least seven years' standing and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for

which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying no less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac., if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the executive of the Faculty of Graduate Studies and Research, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University.

Full particulars can be obtained from the Registrar of the University.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for the degree of Master of Arts, and for the degree of Master of Science, must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 29th. Theses for the degree of Ph.D. must be handed in on or before April 25th.

All theses for the degree of Master of Science which involve experimental work, as well as all theses for the degree of Master of Scence in Agriculture, must be in the hands of the Dean not later than May 13th.

In the case of students who wish to graduate at the Fall Convocation, their theses must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 3rd.

Owing to the fact that all theses submitted by successful candidates for higher degrees will be bound and placed in the Library, candidates for such degrees are advised that the Faculty of Graduate Studies and Research will henceforth require these to be prepared in a uniform manner and in accordance with the following specifications:—

(1) The paper is to be of uniform size, 8½ x 11 inches, and of substantial quality.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) All theses must be typewritten and in duplicate, Ph.D. theses in triplicate.

(4) No binding is necessary, but the loose sheets must be placed in a manila envelope in the order of their pagination.

In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Literature or Doctor of Civil Law, two copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, two typewritten copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than *February 14th* of the year in which the candidate desires to take the degree.

INTERCHANGE OF STUDENT TEACHERS

An arrangement has been made between the National Committee for the Training of Teachers, Scotland, and McGill University, for the reciprocal exchange of student teachers.

The students coming to McGill will be Honour Graduates in Arts or Science and probably also in Education. They may make a special study of Education or may take up any course leading to the degree of M.A., M.Sc., or Ph.D. If they study for a higher degree, the period and conditions of study will be fixed by the Faculty of Graduate Studies and Research on the recommendation of the Head of the Department in which the work is to be carried on. They will be assisted for one year and possibly for two. Students who study Education will be called upon to furnish a detailed report on their work, in which case only one year's studentship will be allowed. Details of the teaching work will be arranged by the Professor of Education.

Students going from McGill must be Bachelors of Arts, or Bachelors of Science in Arts, or Masters of Arts.

They will be assisted for one year and in special cases for two. The allowance will be $1,200 per annum.

They will be expected either to study for a higher degree or to make a detailed study of Scottish educational systems. In the latter case, only one year's studentship will be allowed.

A student teacher, holding an M.A. degree from McGill, may be able to obtain a Scottish Ph.D. in two years.

Applications must be sent to the Principal before May 1st. These must state:—(a) University qualifications; (b) Teaching experience; (c) Any general experience; (d) Whether the student proposes to study for a higher degree and, if so, for what degree and whether or not he requires one or two years' assistance.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY

(Macdonald College)

PROFESSOR OF AGRONOMY:—ROBERT SUMMERBY.

ASSISTANT PROFESSORS:— L. C. RAYMOND. E. A. LODS.

The Agronomy Department is well equipped in field and laboratory equipment for crop studies, plant breeding, and field experiments. A greenhouse is available for the study of plant material and for carrying on work in winter.

Apparatus is available for reducing samples of plant material to a dry matter basis on an extensive scale. Facilities are also available in the Chemistry Department for students in Agronomy to make chemical analyses.

Other material facilities include microscopes, germination equipment, calculation machines, etc.

A large part of the attention of the Agronomy Department is devoted to breeding and other investigational work with crop plants. This furnishes a large amount of data and material for work in crop and plant breeding studies. The Department is always well supplied with an abundance of laboratory material for the study of types, varieties, variation, correlations, inheritance, etc. Extensive data are available for the study of many problems in Soil Heterogeneity.

In the Redpath, Macdonald College, and Agronomy Department Libraries all the important periodicals, scientific journals, books and bulletins on Agronomy and related subjects, are available to students.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE

Candidates for the degree of Master of Science in Agriculture who take Agronomy as a major are expected to have had a good training in Agronomy, Botany, Chemistry, and Genetics. Those who have not had adequate training in these subjects will be expected to meet this requirement.

A. Crop Production. This course deals with the important factors of soil productivity and crop growth, and the relation of these to methods and practices of crop production.

Two lectures and one laboratory period per week for one term.

Assistant Professor Raymond.

B. **Crop Breeding.** This course deals with variation, inheritance, genetic relations and their application to plant breeding. It forms the basis for the plant breeding work in Courses 4 and 5.

One lecture per week for one term.....Professor Summerby.

C. **Experimentation.** This course deals with the factors involved in agronomic investigations, technique, statistical methods and their application to the interpretation of results.

One lecture and two laboratory periods per week for one term.
Professor Summerby.

D. **Forage Crops.** This course includes a study of classification, adaptation, production, uses, breeding, and the investigational work on these subjects.

(a) Hay and Pasture Crops.....————————.

(b) Corn and Roots.....Assistant Professor Raymond.

Two lectures and two laboratory periods per week for two terms.

E. **Grain Crops.** This course includes a study of classification, adaptation, production, uses, breeding, and the investigational work on these subjects.

Three lectures and three laboratory periods per week for one term.
Assistant Professor Lods.

F. **Seminar.** Fortnightly, during the year.

It is recommended that candidates spend at least one summer in the Agronomy Department before or during the course.

Each student shall be required to pass an examination in each subject of his course.

In addition, each student shall be expected to pass an oral examination to test his ability and knowledge outside of his regular courses of study.

DEPARTMENT OF ANATOMY

PROFESSOR OF ANATOMY:—S. ERNEST WHITNALL.
PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.
ASSOCIATE PROFESSOR OF ANATOMY:—J. BEATTIE.

The Department is equipped with the usual laboratory facilities and can offer ample material, including a series of anthropoid subjects and brains. The Museum is fully representative, with a range of animal skeletons and a comprehensive osteological collection. Photographic work is done in the same building. A small departmental library contains general and advanced text-books with some works of reference;

the Medical Library is on the same floor. There is a departmental card index of over 10,000 references to anatomical articles. Private rooms are available for individual work.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. **Advanced General Human Anatomy,** in which teaching and examination experience can be obtained...Professor Whitnall and Staff.

B. **Specialization in one of the following subjects:**

(a) Embryology. A course on the development of the human embryo and its coverings, together with Organogenesis.

Professor Simpson and Staff.

(b) Human Morphology. Students will be expected to dissect at least three Primates, and to familiarize themselves with the recent work on Pleistocene Man; special attention is to be given to myological and neurological problems.

Professors Whitnall and Beattie.

(c) Physical Anthropology. Instruction will be given in the measurement of human and anthropoidal skeletons, with statistical treatment of the results.....Professor Beattie.

(d) Neurology. A course on human and comparative neurology, with experimental laboratory course....Professor Beattie.

Candidates may also be recommended to study certain cognate minor subjects (Biochemistry, Physiology, Vertebrate Zoology).

The whole course is designed to be of value to either (1) those who propose to engage upon clinical professional work, such as Gynæcology and Obstetrics, when in addition to the General Course in Anatomy, they may well be advised to take the special work in Embryology, or, for prospective nerve specialists, that in Neurology, or (2) those who wish to pursue broader scientific lines of work, when they may take the Course in Morphology or Anthropology.

Each of the above courses will comprise colloquia, reading and practical work. The candidate must show evidence of ability to engage in research work, and shall present a thesis on some subject connected with his course of study.

Candidates for the above courses must hold the degree of M.D. with good standing.

DEPARTMENT OF BACTERIOLOGY

(Macdonald College)

ASSISTANT PROFESSOR OF BACTERIOLOGY:—P. H. H. GRAY.

The Department of Bacteriology offers graduate courses in Soil Microbiology, Pathogenic Microbiology and Bacterial Diseases of Plants. These courses, together with certain others in Pathology and Bacteriology given in the Faculty of Medicine, form the basis for major study leading to the degrees of Master of Science in Agriculture, Master of Science and Doctor of Philosophy.

Laboratories are provided for general work in bacteriological technique, soil research and animal pathology. There are greenhouse facilities for soil and bacterial plant disease problems. An autopsy room adjoins the animal house for animal operations and autopsies. Equipment for this work includes also bacteriological apparatus for research, a high powered centrifuge, filtering apparatus and a Zeiss photomicrographic outfit.

A. Soil Microbiology. This course deals with the physical, chemical and biological aspects of the subject, with special reference to the maintenance of soil fertility. Emphasis is laid upon methods employed in soil research, the rôle of organic matter in the soil, the decomposition and transformation processes taking place, and stimulative agencies at work which affect the physiological efficiency of soil micro-organisms.

One lecture and six laboratory hours per week for one year; six colloquia.

B. Pathogenic Microbiology. This course includes the systematic study of micro-organisms causing pathological conditions in animals, the clinical symptoms of disease, and therapeutic measures. The development of technique in laboratory diagnosis receives emphasis.

One lecture and six laboratory hours for one year; six colloquia.

C. Bacterial Diseases of Plants. The purpose of this course is to give the student training in advanced technique and methods. The work includes systematic studies of numerous species of bacteria which cause plant disease, the application of methods of isolation and inoculation to plant disease problems. Specific plant diseases prevalent in Canada and the Northern United States are investigated.

One lecture and six laboratory hours per week for one year; six colloquia.

EXAMINATIONS

Students are expected to write a final examination on each of the subjects for which they register.

Prerequisites for students taking Bacteriology as their major subject are:—At least one course in general microbiology of a year's duration; chemistry (inorganic and organic) and physics. Advanced mathematics and more chemistry, particularly physical and physiological, are advised.

Students selecting soil bacteriology should have had previous courses in the physics and chemistry of soils and farm crops.

A preliminary course in histological studies and technique and work in hygienic or pathogenic bacteriology are expected of students taking pathogenic microbiology.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

See page 510, under Pathology and Bacteriology.

DEPARTMENT OF BIO-CHEMISTRY

PROFESSOR OF BIOCHEMISTRY:—J. B. COLLIP.

ASSISTANT PROFESSORS:—J. W. SCOTT. D. L. THOMSON.

The Biochemical Laboratories are especially equipped for research on endocrine problems, but ample facilities are also provided for research on problems of more general biochemical interest.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

It is desirable that students entering for the M.Sc. in Biochemistry should have taken advanced courses in both Chemistry and Biology as undergraduates.

Candidates who desire to proceed to this degree must have a good knowledge of Chemistry (inorganic, organic and physical) and must have taken (or must take concurrently with the work for this degree) all the undergraduate work in Biochemistry.

Candidates who have satisfactorily completed the course in general Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree in Biochemistry at the end of one year's

graduate work in the department. All others will be expected to spend two years in the graduate school before going forward for the degree. The requirements for this degree will consist of:—

1. Candidate attaining a thorough knowledge of the subject matter of general Biochemistry.

2. Completion of some minor research.

3. Presentation of a thesis.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The requirements for registration for the degree of Ph.D., with Biochemistry as the major subject, are the same as those for the M.Sc.

During the course of study, the candidate must attain to a high degree of proficiency in the subject, and in addition must undertake a research problem, to the elucidation of which he will be expected to devote much time and energy. In the selection of the problem consideration will be given to the previous training and demonstrated ability of each candidate.

DEPARTMENT OF BOTANY

PROFESSORS OF BOTANY:— { FRANCIS E. LLOYD. / GEORGE W. SCARTH.

PROFESSOR OF PLANT PATHOLOGY (MACDONALD COLLEGE):— ————————.

ASSOCIATE PROFESSOR OF BOTANY (GENETICS):—C. L. HUSKINS.

ASSISTANT PROFESSOR OF PLANT PATHOLOGY (MACDONALD COLLEGE):— J. G. COULSON.

LECTURER IN PLANT PATHOLOGY:— ————————.

MATERIAL FACILITIES FOR GRADUATE STUDY

Ordinary laboratory equipment and greenhouse space for practical work in plant physiology, histology and genetics. Special equipment for optical and photographic work (ultra-microscopes, ultra-violet and moving-picture outfits); bio-physical measurements (potentiometers, tensionometers, etc.), and for cell investigation (micro-manipulators, etc.). Museum, Herbarium and Library with standard books and journals in Botany and General Physiology.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. Comparative Morphology and Taxonomy.

B. Anatomy and the Microchemistry of cell walls. (Specially adapted as a minor for students of Cellulose Chemistry and Technology.)

C. Physiology and Ecology. Repetitive studies.

D. Cytology and Cellular Physiology. (A suitable minor for students specializing in Physiology, Biochemistry, etc.)

Major Subject.

1. A candidate taking Botany as a major subject shall display a general knowledge of Botany well in advance of the standard required for a B.A. or B.Sc. degree (continuation course). He must also possess a knowledge of the history of Botany as contained in Sach's and Reynolds Green's text-books and an adequate acquaintance with any subject outside of Botany which may be prerequisite to the following.

2. The candidate shall show special knowledge of, and shall satisfy the laboratory requirements in, at least *two* of the *lines of study* mentioned above.

Minor Subject

A candidate taking Botany as a minor subject shall possess as a prerequisite sufficient knowledge of Botany and other subjects to enable him to specialize in *one* of the *lines of study,* and in that line, shall satisfy the same requirements as for a major.

Each line of study demands about six hours laboratory work per week, in addition to prescribed reading and attendance at instructional courses.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

A deeper knowledge of one of the above lines of study; reading and abstracting of original papers; and an intimate acquaintance with the particular field treated in the candidate's thesis. Instruction is given mainly by way of conference and direction of study.

Research

The most important requirement over and above those of the M.Sc. is the accomplishment of a piece of research requiring originality and initiative.

The following courses are given in Plant Pathology at Macdonald College, leading to the degrees of M.S.A. and M.Sc.

The Departmental laboratories of plant pathology, plant physiology and histology, as well as a small research laboratory, are available for the use of graduate students. Greenhouse facilities are also provided.

The Department has a considerable number of the more specialized works and periodicals concerning plant pathology.

The Graduate work given in this Department is in the field of plant pathology and mycology.

Candidates must have completed satisfactory undergraduate courses in plant morphology, physiology, taxonomy, histology and cytology. Specialists in plant pathology should possess a general knowledge of the fundamental practices in agronomy and horticulture.

A. History of Plant Pathology. One lecture per week for one term. Extra reading required.

B. Advanced Mycology. Two lectures and two laboratory periods per week for two terms. This course, requiring as a prerequisite a general course in systematic mycology, offers special work in the morphology and taxonomy of the fungi.

C. Advanced Plant Pathology. Detailed studies of plant diseases; culture and inoculation work; field and greenhouse tests in control measures, etc. Two lectures and two laboratory periods per week for two terms.

Professor Coulson and others.

D. Physiology of the Fungi. Nutrient requirements; carbon sources in nutrition; nitrogen fixation; enzymes in nutrition; H-ion and nitrogen concentration; temperature, light and moisture conditions; tropisms, staling; spore germination conditions; biologic specialization; physiology of parasitism; symbiosis. Two lectures and two laboratory periods per week for one term.

Professor Coulson.

E. Phytopathological Histology. A study of abnormal plant structures caused by myxomycetes, fungi, bacteria, insects, etc.; preparation of slides, photomicrographs, etc. One lecture and two laboratory periods per week for one term.

Professor Coulson.

F. Cytology of the Fungi. Studies of sexuality; nuclear phenomena; formation of sporangium, conidium, pycnidium, perithecium,

etc.; origin of setae, cystidia, etc.; development of chlamydospores, sexual and asexual spores, etc. Two lectures and two laboratory periods per week for one term.

G. Seminar. A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of general botany, physiology, cytology, histology, morphology, ecology, taxonomy, genetics, mycology, pathology. Attention will be more especially directed to such articles as have application in plant pathology or mycology. One period per week. Professor Coulson and others.

Candidates for the degree of M.S.A. in Plant Pathology will be required to take courses A, G and two others of the graduate courses offered in this Department.

A candidate for the degree of Doctor of Philosophy may take two years at Macdonald College and one at another University.

DEPARTMENT OF CHEMISTRY

PROFESSOR OF INORGANIC CHEMISTRY AND DIRECTOR OF THE CHEMISTRY DEPARTMENT:—F. M. G. JOHNSON.

PROFESSOR OF CHEMISTRY (MACDONALD COLLEGE):—J. F. SNELL.

PROFESSOR OF PHYSICAL CHEMISTRY:—O. MAASS.

E. B. EDDY PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT.

ASSOCIATE PROFESSOR:—W. H. HATCHER.

ASSISTANT PROFESSOR:—C. F. H. ALLEN.

ASSISTANT PROFESSOR (MACDONALD COLLEGE):—J. B. MCCARTHY.

LECTURER:—E. W. R. STEACIE.

LECTURER (MACLONALD COLLEGE):—R. R. MCKIBBIN.

Facilities for Graduate work are available in Organic, Inorganic, Physical, Colloid and Cellulose Chemistry. In each of these branches a variety of research problems is offered for which equipment and laboratory facilities are ample. Accommodation is available for about forty students.

The Baillie Library of Chemistry is well endowed and exceptionally complete.

COURSES FOR HIGHER DEGREES

A. Advanced Organic.

Chemistry of more complicated reactions and classes of organic substances.

Two hours per week, first term; three hours, second term.

Dr. Allen.

B. **Structural Organic Chemistry.**

This course is designed for those specializing in Organic Chemistry. The following topics, among others, will be discussed: terpenes, heterocyclic compounds including five and six-membered ring systems; plant and animal pigments, cholesterol, certain alkaloids, free radicals, molecular rearrangements. The subject matter will not necessarily be the same each year.

Two hours per week.....Dr. Allen.

C. **Advanced Organic.**

General principles and recent developments.

One hour per week.....Dr. Hibbert.

D. **Advanced Inorganic.**

The Periodic System, modern theories of valence and atomic structure.

One hour per week.....Dr. Johnson.

E. **Advanced Inorganic.**

Tutorial covering properties of the elements and their compounds.

One hour per week.....Dr. Johnson.

F. **Advanced Physical.**

(a) Properties of Matter — discussed from the kinetic point of view ..... 2 hrs. per week, 1st term.

(b) Physico-chemical Equilibria. From point of view of time factor and thermodynamics... 2 hrs. per week, 2nd term.

(c) Phase Rule ..... 1 hr. " " 1st "

(d) Atomic Structure and Radioactivity ..... 1 hr. " " 2nd "

Any or all of these sub-divisions, as well as a course in theoretical calculations may be required.

G. **Colloid Chemistry.**

Two hours per week.....Dr. Johnson.

Laboratory courses are available in all of the above when required.

H. **History of Chemistry.**
One hour per week, Second term.....Dr. Hatcher.
The above courses are available for Honours students in Arts and students in Chemical Engineering.

I. **Short Courses on Recent Advances.**
One hour per week.
(Subjects change annually.) .....Senior Staff.

J. **Colloquium—Organic.**
Two hours per week.....Drs. Hibbert, Hatcher and Allen.

K. **Colloquium—Inorganic and Physical.**
Two hours per week.....Drs. Johnson and Maass.

L. **Cellulose, Lignin and Related Compounds.**
One hour per week.....Dr. Hibbert.

Graduate students are expected to attend the weekly meetings of the Chemical and Physical Societies.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

I. Students shall be required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry and other assigned courses, if any. Students are expected to have covered the subject matter of at least two of the above courses on entrance to the Faculty.

II. *Colloquium*—one per week.
Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

III. *Special Graduate Lectures.*
Students shall be required to pass examinations on the subject matter of such lectures related to their particular work.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

I. The research work in this Department may be conveniently considered under four heads:—
(a) Organic Chemistry.
(b) Inorganic "
(c) Physical "
(d) Colloid "

One of these (under which the research falls) shall be designated the "principal subject" and each of the others a "secondary subject."

Graduate students shall be required to take examinations in both "principal" and "secondary" subjects.

Principal Subject:—Several examinations, both written and oral, shall be held. Students shall be responsible for the subject matter of all related lecture courses and assigned reading. Special courses given in other Departments may be assigned and examinations required.

Secondary Subjects:—The examinations shall be less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

II. *Colloquium*—one per week each year in the principal subject. Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

EXAMINATIONS IN CHEMISTRY

Principal Subject:

1. An examination shall be held in May of the second year (as at present). Additional special examinations shall be held during the third year.

2. Candidates who fail in the May examination of the second year shall be required to repeat the year and the examination in the principal subject.

Secondary Subjects:

1. All examinations shall be available in May and October for candidates in the first two years.

2. A second supplemental examination in any one subject may be taken only on recommendation by the Department.

3. Examinations in all subjects must be passed by the end of October of the candidate's third year.

4. For candidates entering the third year, the October examinations shall be supplemental examinations only.

General:

1. A candidate who may wish to take examinations in any one or more secondary subjects in October of his entrance year is advised to consult the Director of the Department as soon as possible.

2. On application to the Director of the Department a special exemption from examination in a secondary subject may be made in the case of a candidate who has obtained a very high standing in the McGill undergraduate examinations in the same subject. Such exemption shall be granted only with the consent of the Department and the approval of the supervisor of the candidate's research.

DEPARTMENT OF AGRICULTURAL CHEMISTRY

(Macdonald College)

In addition to four student laboratories there are three research laboratories and space for the equipment of additional rooms, when required. A good supply of ordinary apparatus and chemicals is kept in stock. Special apparatus and instruments include a Schmidt and Haensch polarimeter, Abbe refractometer, Zeiss immersion refractometer with replaceable prisms, Chamot chemical microscope, Klett colorimeter, Van Slyke amino nitrogen apparatus, Van Slyke blood gas apparatus, Parr carbon apparatus, DeKhotinsky drying and vacuum ovens, electric muffle and combustion furnaces, etc.

There is a comprehensive library of agricultural books and periodicals. The resources of the University libraries and of the library of the Department of Agriculture and that of the National Research Council at Ottawa are readily accessible, and the courteous co-operation of other Canadian and American libraries can be counted upon in conection with research work.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Prerequisites:—Courses in Inorganic, Organic and Analytical Chemistry; training in Qualitative and Quantitative Analysis; courses in Physics.

A. Chemistry of Soils and Fertilizers. Two lectures a week during the Spring term in alternate years. Given in 1930-31. Laboratory work in analysis of soils and fertilizers. Hours for Graduates variable. Supplementary reading.....

Dr. R. R. McKibbin.

B. **General Biochemistry.** Two lectures a week during the Spring term in alternate years. Supplementary reading. Laboratory work. Hours for Graduates variable. Given in 1930-31.

Dr. R. R. McKibbin.

*C. **Chemistry of Insecticides and Fungicides.** Discussion of the composition of commercial insecticides and fungicides and of the chemical changes involved in the preparation of spraying mixtures; also of the methods of analysis of such materials with reference to the chemical principles involved. Three lectures a week during the Spring term. Laboratory work. Hours for Graduates variable. Given in 1930-31.....Dr. J. F. Snell.

*D. **Dairy Chemistry.** Two lectures a week during the Fall term. Laboratory practice in the analysis of milk and its products. Hours for Graduates variable.....Dr. J. F. Snell.

*E. **Food Chemistry.** Two lectures a week during the Spring term. Laboratory practice in food analysis. Hours for Graduates variable.....Dr. J. F. Snell.

F. **Tutorial in Physical Chemistry.** Reports and discussions on assigned readings. One hour a week...Dr. J. B. McCarthy.

G. **Tutorial in Organic Chemistry.** Reports and discussion on assigned readings. One hour a week for one term.

Dr. J. F. Snell.

H. **Tutorial in Colloid Chemistry.** Reports and discussion on assigned readings. One hour per week for one term.

Dr. J. F. Snell.

*I. **Seminar** . One hour per week in all years of the course. Each student will present at least three papers a year.

Dr. Snell, Dr. McCarthy and Dr. McKibbin.

J. **Research.** Supervision of reading and experimental work in connection with thesis.

Dr. Snell, Dr. McCarthy and Dr. McKibbin.

Special arrangements may be made for the Ph.D. degree in association with the McGill Department of Chemistry. Agricultural Chem-

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* These courses are also open to advanced undergraduates.

istry will be regarded as the principal subject, and courses taken in the other departments mentioned in paragraph 1 as secondary subjects. See regulation 3 for the Degree of Doctor of Philosophy. (Page 461.)

Candidates must qualify in the equivalent of at least four lecture hours of the above subjects in addition to participating in the Seminar.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

PROFESSOR OF CIVIL ENGINEERING:—HENRY MARTYN MACKAY.

PROFESSOR OF APPLIED MECHANICS AND HYDRAULICS:—ERNEST BROWN.

PROFESSOR OF HIGHWAYS AND MUNICIPAL ENGINEERING:—
R. DE L. FRENCH.

ASSISTANT PROFESSOR OF CIVIL ENGINEERING:—R. E. JAMIESON.

Excellent laboratory facilities are provided for work in the strength and elasticity of materials, structural elements, highway materials and hydraulics. The materials laboratories have exceptionally useful extensometer equipment for work in stress distribution.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. Statically Indeterminate Stresses.—General methods of stress analysis, influence lines, applications to braced arches, rectangular framework, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, two hours tutorial, and six hours computation and reports. .....Assistant Professor Jamieson.

B. Technical Elasticity.—The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, two hours tutorial, and six hours computation and reports.

C. Secondary Stresses.—Secondary stresses due to rigidity of joints, deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, two hours tutorial, and six hours computation and reports. .....Professor MacKay.

D. Reinforced Concrete Arches (Advanced).—Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, one hour tutorial, and six hours computation and reports.
Professor MacKay.

E. Hydraulics.—General principles of hydrology in relation to power development; steam gauging and use of records; flow in streams and in open channels; back-water computations; dams and spillways; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation; turbine testing and experimental work in hydraulic laboratory.

One hour tutorial, and six hours computation and reports.
Professor Brown.

F. Highway Engineering.—(a) Highways; history of development; finance, legislation and administration; traffic; economics of design, construction and maintenance; safety provisions. (b) Highway Transportation; history; relation to other forms of transportation; economics of motor transportation; regulation; traffic control.

Four hours tutorial, and twelve hours computation and reports.

Professors French and McKergow and Staff. Special lectures from time to time.

Candidates for the M.Sc. degree will be expected to take at least two and generally three courses in addition to thesis work. Written examinations which may be supplemented by oral examinations will be held in each course. A high standard of attainment will be required.

DEPARTMENT OF CLASSICS

HIRAM MILLS PROFESSOR OF CLASSICS:—WILLIAM D. WOODHEAD.
PROFESSOR OF GREEK:—C. W. STANLEY.
PROFESSOR OF CLASSICAL PHILOLOGY:—C. H. CARRUTHERS.
ASSOCIATE PROFESSOR OF CLASSICS:—A. M. THOMPSON.

Greek A: Greek Lyric Poetry.

A historical survey of Greek Lyric Poetry with readings from the Anthologia Lyrick Graeca and other texts.
Two hours Colloquia.....Professor Woodhead.

Greek B. Economic Backgrounds of Greek History.

A knowledge of Mediterranean geography and of Greek history is a prerequisite. The student will be expected to read for himself passages in Greek literature to which he is referred, and to interest himself in some of the archæological evidence.
Two hours Colloquia.....Professor Stanley.

Greek C: Pindar.

A selection of the Odes will be read, with parallels from Bacchylides and other authors.
Two hours Colloquia.....Professor Woodhead.

Greek D: Greek Political Theory, with special attention to the Greek conception of Law.

Selected passages from Herodotus, Thucydides, Attic Tragedy will be read, and longer selections from the Republic and Laws of Plato, and from the Politics of Aristotle.
Two hours Colloquia.....Professor Stanley.

Greek E: Aristophanes.

A reading course of selected plays.

Latin A: Vergil, Aeneid.

Some books of the Aeneid will be read and lectures given on topics connected with the study of the poem.
Three hours.....Professor Thompson.

Latin B: Lucretius.

A knowledge of the six books will be required, though not all of the work will be read in class. The poem will be examined primarily as a piece of Latin literature; Greek philosophy and science will be subsidiary considerations.
Two hours Colloquia.....Professor Stanley.

Latin C. Roman Satire.

Lectures on the development of Satura as a form of literature. The Apocolocyntosis, the Satires of Persius, and some of the Satires of Horace and Juvenal will be read.
Two hours Colloquia.....Professor Thompson.

Latin D:

Latin E: Propertius.

A study of Hellenistic influences in Roman literature. Selections from the Appendix Vergiliana and from Catullus will be read as well as the Elegies of Propertius.

Two hours Colloquia.....Professor Woodhead.

Latin F: Petronius and Apuleius.

The Cena Trimalchionis will be read, and selections from the Metamorphoses of Apuleius.

Two hours Colloquia.....Professor Woodhead.

Latin G: History of the Epigram.

A study of the origins of the Epigram, its development by Classical and Hellenistic Greek poets, and its place in Latin literature, Epigrams in the Poetæ Latini Minores will be studied, and selected poems of Catullus and Martial. Essays to be presented on special topics.

Two hours Colloquia.....Professors Carruthers.

COURSES IN COMPARATIVE PHILOLOGY

LECTURER:—PROFESSOR C. H. CARRUTHERS.

A. Introduction to the Study of Language.

For students of Classical or Modern languages. Language as a human institution; relation to thought; theories of origin; value of linguistics as a science; historical method and principles of development; changes in sounds, form and meaning; language, structure; writing and spelling in relation to speech; language and nationality; language families, with special reference to the distribution of the Indo-European languages.

B. Latin Historical Grammar.

The historical development is exemplified by a study of early inscriptions.

C. Greek Historical Grammar.

The historical development is exemplified by a study of certain Greek dialect inscriptions.

D. Comparative Grammar of Greek and Latin.

An outline of courses B and C, primarily for Honour students in Classics.

E. Elementary Sanskrit.

Introduction to Sanskrit inflexions and texts, and comparison with Greek and Latin forms.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

PROFESSOR OF POLITICAL ECONOMY:—STEPHEN LEACOCK.

PROFESSOR OF ECONOMICS AND POLITICAL SCIENCE:—
JOSEPH CLARENCE HEMMEON.

ASSOCIATE PROFESSOR OF ECONOMICS:—JOHN PERCIVAL DAY.

ASSISTANT PROFESSORS OF ECONOMICS:—JOHN COLBORNE FARTHING. JOHN THOMAS CULLITON.

LECTURER IN ECONOMICS:—EUGENE FORSEY.

COURSES FOR THE DEGREE OF MASTER OF ARTS

***A. Social and Industrial Legislation.**
Three hours, first term.....Assistant Professor Farthing.

***B. Great Britain:** Economic and Fiscal Problems.
Three hours, second term.....Associate Professor Day.

***C. Transportation.**
Three hours, second term.....Assistant Professor Culliton.

***D. Economic History.**
Three hours, second term.....Assistant Professor Farthing.

***E. Economic Statistics.**
Three hours, first term.....Associate Professor Gillson.

F. Development of Public Policy in Canada, 1867-1897. Parliamentary Debates and Contemporary Documents.
Mon., Wed., Fri., first term, at 3.....Professor Leacock.

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* These courses are also open to undergraduates.

G. Development of Public Policy in Canada, 1897-1914. Parliamentary Debates and Contemporary Documents.

Mon., Wed., Fri., second term, at 3.....Professor Hemmeon.

H. Economic Journal Group.

The Discussion and Criticism of Articles in Economic Journals. One hour.

I. Graduate Seminar.

(Conferences with individual students on thesis work.) One hour.

The work in the Department is carried out with special reference to the study of the economic and political problems of Canada.

No students are admitted except those who have taken an Honour B.A. degree in the Department or who have completed elsewhere a course accepted by the Department as equivalent to that standing.

Students who obtain the B.Com. degree under the four years' regulation and have elected all the options in Commerce for Economics courses may proceed to the degree of M.A. in Economics. Such students are required to pass the First Year Latin of the Faculty of Arts.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The Ph.D. degree shall be awarded on a course of study extended over three or more years under the following conditions:—

1. Qualifications for entrance to be those now obtaining for admission to graduate study in Economics and Political Science.

2. First year of study:—The M.A. course and successful candidacy for the M.A. degree; the thesis subject for M.A. to be continued for the Ph.D. degree.

3. Second year:—An approved course of study at a University outside of Canada in continuance of the work on the thesis subject already selected.

4. Third year:—Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, and to include the preparation and printing *in book form* of the thesis, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science as concerning especially the British Empire.

5. The order of study of the Second and Third year may be reversed.

6. The holder of a position on the Staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

DEPARTMENT OF EDUCATION

PROFESSOR OF EDUCATION:—F. CLARKE.

The degree of M.A. will be granted to candidates who have satisfied the following requirements:—

1. A Bachelor's degree in approved courses.
2. Courses I and II in Education.
3. An approved course in Philosophy or Psychology.
4. Attendance at a seminar as required.
5. A thesis on a topic having reference to Education. (The thesis must involve independent investigation.)

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR OF ELECTRICAL ENGINEERING:—CLARENCE V. CHRISTIE.

ASSOCIATE PROFESSOR:—G. A. WALLACE.

ASSISTANT PROFESSOR:—E. G. BURR.

The Deparmental laboratories are well equipped for carrying out investigation in the various fields listed below under the classification of Electrotechnics; and adequate library facilities are available in the departments of Electrical Engineering and Physics.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. Advanced Mathematics.—Lectures and study under the direction of the Department of Mathematics.

Lectures, two hours.....Dr. Sullivan.

B. Electrical Physics.—Lectures and study under the direction of the Department of Physics.

Lectures, two hours.....Dr. L. V. King and Dr. D. A. Keys.

C. Electrotechnics.

Colloquium, two hours.

The thesis will be in one of the following fields of investigation:—

(a) Design, characteristics and testing of electrical machinery; investigation of special machinery; special problems of design.....Professor C. V. Christie.

(b) Properties of dielectrics and electric insulators; laboratory instruction and experimental investigation, with facilities for high voltage testing.....Professor C. V. Christie.

(c) Design, characteristics and testing of electrical engineering measuring instruments and devices. Facilities are available for precision measurements of most of the electrical quantities. Laboratory investigation of new types of measuring instruments and development of special devices.
Professor G. A. Wallace.

(d) Investigation of devices for protection of electrical power systems; laboratory testing of relays and other devices; development of special types.....Professor E. G. Burr.

(e) Stability of electric power systems; stability under normal and transient conditions; determination of short circuit currents; design of generators and excitation systems for maximum stability.
Professor C. V. Christie and Professor E. G. Burr.

(f) Inductive co-ordination of power and signal systems.
Professor C. V. Christie and Professor G. A. Wallace.

The student, in addition to passing the examinations in the courses in Mathematics and Physics, and presenting a suitable thesis, is required to solve a group of problems bearing on the subject of his thesis, to read and master a selected group of papers from the engineering literature treating on his chosen subject, and to pass an examination in the general subject.

DEPARTMENT OF ENGLISH

PROFESSOR OF ENGLISH:—CYRUS MACMILLAN.

ASSOCIATE PROFESSORS:—GEORGE W. LATHAM. HAROLD G. FILES.

ASSISTANT PROFESSOR:—A. S. NOAD.

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. Anglo-Saxon. Beowulf and other Anglo-Saxon poems, with an examination of various problems of interpretation.
Prerequisite:—English 12 (in the undergraduate course).
Two hours.....Associate Professor Latham.

B. **The English and Scottish Popular Ballads,** with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe. Lectures and theses. (Given 1930-31.)
Two hours.....Professor Macmillan.

C. **Chaucer.** Investigation of special topics and preparation of papers by members of the class.
Prerequisite:—English 14 (in the undergraduate course).
Two hours.....Professor Latham.

D. **The Drama in England from 1660 to the present time.** The development of the heroic play; the comedy of manners; the sentimental comedy; the ethical drama of the 18th century; the ballad opera; the drama of the 19th century; modern tendencies.
Two hours .....Professor Macmillan.

*E. **Spenser and Milton.**
First term; Tu., Th., Sat., at 12.....Professor Latham.

*F. **Shakespeare (Six Plays).**
Mon., Wed., Fri., at 10.....Professor Macmillan.

*G. **English Poetry of the Nineteenth Century.** A study of the beginnings of the Romantic Movement in England and a detailed consideration of the work of the chief English poets from Wordsworth to the present time.
Mon., Wed., Fri., at 11.....
Professor Macmillan, Professor Noad, and an Assistant.

H. **English Novelists, from Richardson to the present time.**
Tu., Th., Sat., at 10.....Professor Files.

*I. **The English Drama, 1590-1642.**
Mon., Wed., Fri., at 11.....
Professor Macmillan and Assistant Professor Files.

*J. **Anglo-Saxon.**
Mon., Wed., Fri., at 2.....Professor Latham.

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* Courses marked with an asterisk are undergraduate Honour courses in the Faculty of Arts, which may also be followed by graduate students who have not already taken them.

*K. **The Technique of the Drama.** Play production; scenic and lighting effects; play structure, etc.
Lectures and demonstrations in Moyse Hall, Tu., at 10 a.m.
Laboratory hours to be arranged.....
Professor Macmillan, Miss Gray and Assistants.

*L. **Chaucer.**
Tu., Th., Sat., at 12.....Professor Latham.

*M. **Comparative Literature.**
The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries.
Three hours.....Professor Noad.

*N. **Comparative Literature.**
A study of some literary types from the Renaissance to the present day, with particular reference to the influence of Continental Literatures upon English.
Tu., Th., Sat., at 9.....Professor Noad.

O. **Memoirs and Memoir Writers.**
A discussion of outstanding works in this class from St. Augustine to the early 19th century.
Two hours.....Professor Noad.

P. **Middle English.** Language and Literature.
Three hours.....Professor Latham.

Q. **Mystical and Other Religious Literature in English During the Later Seventeenth and the Eighteenth Centuries.** An investigation into the earlier phases of the conflict between rationalism and mysticism, with especial emphasis on the influence of Jacob Boehme in England.
Two hours.....Professor Files.

R. **Literary Criticism.** In this course some time is devoted to types and methods of criticism, but it is for the most part concerned with the history and analysis of leading critical thought in the West, from Plato until the present time.
Two hours.....Professor Files.

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* Courses marked with an asterisk are undergraduate Honour courses in the Faculty of Arts, which may also be followed by graduate students who have not already taken them.

S. Shakespeare. A study of special topics; Shakespeare's debt to his own and earlier times, and his growth as a poet and dramatist.

Two hours.....Professor Macmillan.

T. Epistolary Literature. A discussion of outstanding examples of letter-writing from Cicero and Pliny to Stevenson. Special attention is given to the social and literary background reflected in the typical work of each period.

Two hours weekly.....Professor Noad.

GRADUATE COURSES

Candidates for the degree of M.A., taking English as their only subject, must select four courses, of which two must be from A to D (inclusive), and O to T, while J, or its equivalent, is compulsory.

DEPARTMENT OF ENTOMOLOGY

(Macdonald College)

PROFESSOR OF ENTOMOLOGY:—W. H. BRITTAIN.

ASSISTANT PROFESSOR:—E. M. DU PORTE.

The Department of Entomology contains the usual equipment for laboratory work, including the following collections: (1) a growing systematic collection of mounted insects, (2) a collection of economic insects in all stages with samples of the injury caused by these insects, (3) a large collection of named and unnamed, mostly local insects, for the use of students in morphology and taxonomy. Examples of various types of dusting and spraying machinery are available for study in the departments of Agricultural Engineering and Horticulture. The laboratories are well equipped and one large well-lighted laboratory is set apart for the use of advanced students in entomology. A greenhouse and insectary are available for life-history studies. A laboratory for the study of problems in insect physiology and physiological ecology is projected and some of the equipment is already available.

The College Library contains an entomological section. There is a departmental library consisting chiefly of works on economic entomology, including a set of experimental station bulletins. The private libraries of the members of the staff, containing many items not available in the general and departmental libraries, are open to advanced students.

In addition there is a large collection of insects and books available through the Lyman bequest and housed in the Redpath Museum. To these also advanced students have access, as well as to the Blacker Zoological Library housed in the Redpath Library Building.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND MASTER OF SCIENCE IN AGRICULTURE

A. Taxonomy.

Literature of entomology; how to make and use indices, catalogues, check-lists, bibliographies, etc.; zoological nomenclature; history of entomological systems; classification and the principles of classification.

Each student shall bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

One lecture, one colloquium and four laboratory hours per week.

Dr. Du Porte.

B. Insect Morphology and Physiology.

A comparative study of insect morphology, development and phylogeny; the histology and physiology of organs; research on assigned topics.

One lecture, one colloquium, and four hours laboratory per week.

Dr. Du Porte.

C. Economic Entomology.

(a) *Principles of Insect Control.*

This course includes a consideration of the principles underlying the control of crop-destroying insects, including:

(1) the principal natural control factors and their artificial manipulation.

(2) the methods employed in destroying insects by cultural mechanical and chemical means, and

(3) a study of plant quarantine legislation in various parts of the world.

One lecture and one colloquium per week for one term..Dr. Brittain.

(b) *Organization and Methods in Economic Entomology.*

A study of the history and development of economic entomology throughout the world; the methods used in economic entomological research; the preparations of technical and popular treatises on economic entomology.

One lecture and one colloquium per week for one term..Dr. Brittain.

(c) *The Insect Pests of Crops.*

A laboratory study of the main groups of crop-destroying insects, including their biologies, life histories and control, examples being taken from representatives of the chief economic crops of the world, with special emphasis upon local fauna.

Four laboratory hours per week throughout the year...Dr. Brittain.

D. Parasitology.

Deals with the morphology, classification, biology and pathogenesis of the three great parasitic groups: Protozoa, Helminthes and Arthropoda; laboratory diagnosis. Consideration of control directed chiefly to preventive measures, but curative methods also discussed.

Two lectures, three laboratory hours per week.....Dr. Du Porte.

E. Medical and Veterinary Entomology.

A study of insects and other arthropods concerned in the causation of disease in man and domestic animals. The biology and habits of the hosts in relation to disease transmission by insects. Epidemiology of insect-borne diseases. Entomological aspects of sanitation in cities, towns, farming communities and military camps.

Two lectures, three laboratory hours per week for one term.
Dr. Du Porte.

F. Ecology. (Not given in 1930-31.)

With special reference to insects. Physical, chemical and biotic factors in the environment and the adjustment of organisms to these factors.

Inter-relations between animals and between animals and plants.

Physiological life histories.

Behaviour.

Synecology (genetic and geographic).

Two lectures a week, first term.....Dr. Du Porte.

G. Seminar.

One and one-half hours weekly..Dr. Brittain and Dr. Du Porte.

H. Research in Entomology.

Facilities are available for a limited number of students to carry on research in economic entomology or insect biology.

Four laboratory periods per week.....Dr. Brittain.

Courses offered by the Department of Zoology may also be taken.

A candidate for the degree of Doctor of Philosophy may take two years at Macdonald College, and one at another University.

Candidates who have taken the equivalent of the undergraduate courses in Entomology (see Macdonald College announcement) may complete the work for the degree of Master of Science, or Master of Science in Agriculture, in a minimum period of one year; otherwise at least two years will be required.

DEPARTMENT OF EXPERIMENTAL MEDICINE

PROFESSOR OF MEDICINE AND DIRECTOR OF THE UNIVERSITY CLINIC:—J. C. MEAKINS.

Candidates for the higher degrees must present evidence of suitable preparation in chemistry, physiology, and pathology, and must have completed the undergraduate course for the degree of Doctor of Medicine.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. **Tutorial Classes.** Two hours weekly.

B. **Seminar.** One hour weekly.

All candidates for this degree must devote all the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

The above courses are continued throughout all years of graduate study and the experimental research must be of a fundamental and far-reaching character.

DEPARTMENT OF GEOLOGY AND MINERALOGY

PROFESSOR OF GEOLOGY AND CHAIRMAN OF THE DEPARTMENT:—JOHN J. O'NEILL.

PROFESSOR OF MINERALOGY:—RICHARD P. D. GRAHAM.

PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

ASSISTANT PROFESSORS OF GEOLOGY:—J. E. GILL. ———————.

LEROY FELLOW (1929-30):—JOHN T. WILLIAMSON.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Students must take Courses A to G, inclusive.

A. Elementary Structural and Dynamical Geology.
With occasional colloquia.....Professor Gill.

B. Geological Colloquium.—Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology.
One hour per week.

C. Ore Deposits.—As in "Mineral Deposits," by Lindgren; "Economic Aspects of Geology," by Leith; "Principles of Economic Geology," by Emmons; and assigned readings and problems.
Colloquium, four hours per week.....Professor O'Neill.

D. Optical Mineralogy.—Methods of determining the various optical properties of minerals. Optical chapters in Miers' "Mineralogy" and Dana's "Text-Book of Mineralogy"; Tutton's "Crystallography and Practical Crystal Measurement."
One lecture and three hours laboratory per week during the first term .....Professor Graham.

E. Petrography.—As in "Petrology for Students," by Harker, and "Essentials for the Microscopical Determination of Rock-forming Minerals and Rocks," by Johannsen; also "Microscopic Examination of Ore Minerals," by Davy and Farnham. At least nine hours laboratory per week on thin and polished sections...Professor Graham and Assistant Professor ————.

F. Stratigraphy.—This course consists of two parts. First, Sedimentation; a consideration of the source and origin of sedimentary rocks, the significance of their structures and textures, and the structural relationships of strata. Secondly, Correlation; the means by which it is achieved, index fossils, principle of superposition, stratigraphic continuity, etc.; also the subjects of stratigraphic nomenclature and paleogeography. Brief reference will be made to economic products of sedimentary rocks.

Two hours, first term; Mon., Wed., at 12. One hour laboratory, Fri., at 12, and two full days field work during October. One half course.....Professor Clark

G. Palæontology.—The development of ideas concerning the origin of fossils. A brief survey of systematic palæontology, in which the fossils of the major biological groups will be treated in order. The economic importance of palæontology; the meeting place of biology and geology; the bearing of palæontology upon the doctrine of evolution.
Two hours, second term; Mon., Wed., at 12. Three hours laboratory, Wed., 2 to 5 p.m.....Professor Clark.

H. Physiography and Natural Resources of Canada.—This course must be taken by those who have not taken it in Fourth Year Arts.
One lecture and three hours laboratory per week.
Assistant Professor Gill.

Students who have satisfactorily completed undergraduate courses in general geology, mineralogy, determinative mineralogy, petrography, Canadian geology, stratigraphy, practical geology, and ore deposits, or their equivalents, may expect to complete their M.Sc. course in one year; those specializing in economic geology must have certain engineering credits in addition to the above.

COURSES FOR THE DÈGREE OF DOCTOR OF PHILOSOPHY

(Second and Third Years)

I. Pre-Cambrian Geology.—The character and distribution of Pre-Cambrian rocks. Methods of interpretation and of correlation, etc.
Lectures and colloquia, at least two hours per week; first term .....Professor O'Neill.

J. Geological Map Interpretation.
One hour colloquium per week with assigned problems.
Assistant Professor Gill.

K. Geophysics and Geo-Chemistry.
Includes eight to ten lectures on Methods of Geophysical prospecting given by the Department of Physics (if a sufficient number of students apply).
"Applied Geophysics in the Search for Minerals," by Eve and Keys; "Data of Geo-Chemistry," by Clark.

L. Advanced Petrography.—"Igneous Rocks," by Iddings, vols. 1 and 2; "Natural History of Igneous Rocks," by Harker; "Rocks and Rock Weathering," by Merrill; "The Evolution of the Igneous Rocks," by Bowen.
Reference Books:—"Massige Gesteine," by Rosenbusch, and "Lehrbuch der Petrographie," by Zirkel.
At least nine hours laboratory work per week.
Professor Graham and Assistant Professor ————.

M. Advanced Mineralogy.—Studies of the less common minerals and their determination by optical and other characters. Assigned readings on constitution, isomorphism, alteration, etc., of minerals, and general geophysical data as represented by papers published by the Carnegie Geophysical Laboratory.
Three hours laboratory per week.....Professor Graham.

N. General Reading.—"Aspects of the Earth," by Shaler; "The Voyage of the Beagle," by Darwin; "Age of the Earth," by Sollas; "Geological Sketches," by Sir Archibald Geikie; "Founders of Geology," by Geikie; "Biological Essays," by Huxley; etc.

O. Physiography.—"Earth Sculpture," by Jas. Geikie; "Physiography," by Salisbury; "Scenery of Scotland," by Sir Archibald Geikie, and assigned reports and papers pertaining to particular districts. Assistant Professor Gill.

*P. Advanced Palæontology.
Hours to be arranged.....Professor Clark.

†Q. Advanced Economic Geology.—Assigned readings and studies of outstanding examples of various types of mineral deposits and of the application of Geology to the petroleum industry and to engineering problems; the preparation of geological reports.
Colloquium, two hours per week.....Professor O'Neill.

†R. Advanced Structural and Dynamical Geology.—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess. Students are also held responsible for "Structural Geology," by Leith;

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* For students wishing special work in Palæontology.
† Courses Q and R may be given in alternate years.

"Metamorphic Geology," by Leith and Mean; "Bild und Bau der Schweizer Alpen," by C. Schmidt; "Mechanics of Appalachian Structure," by Willis (13th Annual Report U.S.G.S.); Selected Readings from "Mechanismus der Gebirgsbildung," by Heim, and "Treatise on Metamorphism," by Van Hise; numerous papers on mountain building and isostasy.

At least two hours colloquia per week.

Professors O'Neill and Gill.

Ph.D. students must complete Applied Science Chemistry 58, 61 and 62, if not previously taken.

The Final (Third) Year of the Ph.D course will be almost exclusively devoted to research work in connection with the preparation of the thesis.

DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURE

PROFESSOR OF GERMANIC LANGUAGES AND LITERATURE:—H. WALTER.

ASSOCIATE PROFESSOR:—W. L. GRAFF.

ASSOCIATE PROFESSOR OF ENGLISH:—G. W. LATHAM.

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. Gœthe.
One hour.....Professor Graff.

B. Geschichte des deutschen Romans.
One hour.....Professor Graff.

C. Hebbels Dramen.
One hour.....Professor Walter.

D. Gothic and Introduction to Germanic Philology.
One hour.....Professor Latham.

Candidates who have not taken German Philology and Mediæval Texts in their undergraduate course must take it as part of their M.A. course, except when German is taken as a minor.

DEPARTMENT OF HISTORY

PROFESSORS OF HISTORY:— W. T. WAUGH. C. E. FRYER.

ASSOCIATE PROFESSOR:—E. R. ADAIR.

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. Historical Method and Criticism.
Seminar, one hour.....Professors Waugh, Fryer and Adair.

B. The Early History of the English Parliament.
Seminar, one hour.....Professor Waugh.

C. Joan of Arc and Her Times.
Seminar, one hour.....Professor Waugh.

D. The Reign of Charles I.
Seminar, one hour.....Professor Adair.

E. William Pitt and the Conquest of Canada.
Seminar, one hour.....Professor Adair.

F. Industrial Democracy in England.
Seminar, one hour.....Professor Fryer.

G. Problems in World Politics Since 1878.
Seminar, one hour.....Professor Fryer.

H. A Selected Period in the History of Canada Since 1760.
Seminar, one hour.....Professor Fryer.

I. History of a Quebec Parish.
Seminar, one hour.....Professor Adair.

Graduate work in the Department of History is directed through Seminars and Conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History may be required, if occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

DEPARTMENT OF MATHEMATICS

PROFESSOR OF PURE MATHEMATICS:—CHARLES T. SULLIVAN.

PROFESSOR OF APPLIED MATHEMATICS:—NEIL BRUCE MCLEAN.

ASSOCIATE PROFESSORS OF MATHEMATICS:—ALBERT H. S. GILLSON, W. L. G. WILLIAMS.

ASSISTANT PROFESSOR:—HERBERT TATE.

COURSES FOR THE DEGREE OF MASTER OF ARTS

***A. Introduction to the Theory of Functions of a Real Variable.**

Three hours.....Associate Professor Williams.

***B. Introduction to the Theory of Functions of a Complex Variable.**

Three hours.....Professor Sullivan.

C. Theory of Numbers.

Introduction to the classical theory of numbers; arithmetical properties of hypercomplex numbers, etc.

Two hours.....Associate Professor Williams.

D. Methods of Mathematical Physics.

This course is designed to include an account of the various mathematical methods available for modern Physics.

Two hours.....Associate Professor Gillson.

E. Differential Geometry.

Two hours.....Professor Sullivan.

F. Differential Equations and Advanced Calculus.

Two hours.....Professor Murray.

G. Theory of Generalized Relativity.

Two hours.....Associate Professor Gillson.

H. Theory of Invariants.

Two hours.....Assistant Professor Tate.

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* Open also to undergraduates of the Fourth Year in the Honour course.

I. **Theory of Algebraic Plane Curves.**
Two hours.....Professor Sullivan.

Courses A, B, D, F are given annually. An additional one of the courses listed above will be given, if a sufficient number of qualified students present themselves.

Students taking a Minor in Mathematics for the M.Sc. degree in Applied Science must have as preliminary training the Mathematics required of undergraduates in Applied Science, with an additional full-time more advanced course in Mathematics.

For a Minor in Mathematics for the Ph.D. degree the student must have the equivalent of the Mathematics required in the honour course in Mathematics and Physics, and an additional full-time graduate course in Mathematics.

The final examinations in Mathematics as a Minor for the Ph.D. degree shall include two papers, namely: one on the full-time graduate course, and one, which shall be a general paper on the facts and principles of the Mathematics in the honour course in Mathematics and Physics.

No candidate for the M.A. or M.Sc. degree in Mathematics will be accepted unless he has the equivalent of honours in Mathematics at McGill.

DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSORS OF MECHANICAL ENGINEERING:—{CHARLES M. MCKERGOW. ARTHUR R. ROBERTS.

PROFESSOR OF FUEL ENGINEERING:—LESSLIE R. THOMSON.

PROFESSOR OF ORE DRESSING:—JOHN W. BELL.

PROFESSOR OF MINING ENGINEERING:—WILBERT GEO. MCBRIDE.

PROFESSOR OF METALLURGY:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR OF MECHANICAL ENGINEERING:—JAMES A. COOTE.

ASSISTANT PROFESSOR OF METALLURGY:—GORDON ST. GEO. SPROULE.

LECTURER IN CHEMISTRY:—E. W. R. STEACIE.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. **Engineering Thermodynamics.** Prerequisites, Courses 229 and 251.
(See pages 312 and 315.)
Three hours colloquia.....Professor McKergow.

B. **Machine Design.** Prerequisites, Courses 225 and 242.
(See pages 312 and 314.)
Three hours colloquia.....Professor Roberts.

C. **Industrial Engineering.** Prerequisites, Courses 253, 254, 258 or their equivalent.
(See pages 315 and 316.)
Two hours lectures and two hours colloquia..Professor Coote.

D. **Fuel Engineering.** Prerequisites, a B.Sc. in Mechanical, Mining or Chemical Engineering.

Group I. *Fuels and their Sources*

(a) Energy survey, one hour per week; one term.
Professor McKergow.

(b) Coal problem and fuels, one hour per week; one term.
Prof. Thomson.

(c) Economic geology of fuels, one hour per term.
Prof. O'Neill.

(d) Mechanical preparation of coal, one hour per term.
Professors McBride and Bell.

Group II. *Combustion Group*

(a) Heat measurements, one hour, two terms.....
Professors Stansfield and Sproule.

*(b) Principles of combustion, one hour, two terms.....
Professors McKergow and Thomson.

(c) Coal processing and manufactured fuels, one hour, two terms.....Prof. Thomson.

*(d) Steam and gas prime movers, laboratory course.
Professor McKergow.

Group III. *Engineering*

(a) Principles of fuel engineering, one hour, two terms.
Dr. E. W. R. Steacie.

(b) Furnace and retort design, one hour, one term.....
Prof. Stansfield.

(c) Properties of materials, one hour, one term.....
Professors Stansfield and Sproule.

* Not necessary for graduates in Mechanical Engineering.

Group IV. *Financial and Economic*

(a) Economics of public utilities, one hour, one term..... Prof. Thomson.

(b) Public relationships, one hour, one term.....Prof. Coote.

On account of the number of alternative entry qualifications it is impossible to detail the required undergraduate courses. They can be determined on consultation with the Head of the Department of Mechanical Engineering.

The thesis may be either the final report referred to in Section D below, or a special thesis as may be determined by the Science Division of the Faculty.

Each student will spend a minimum of four months at some industrial plant or plants, at which arrangements for his studies will have been made by the University.

DEPARTMENT OF METALLURGICAL ENGINEERING

PROFESSOR OF METALLURGY:—ALFRED STANSFIELD.
ASSISTANT PROFESSOR:—GORDON ST. GEORGE SPROULE.
SESSIONAL LECTURER:—HAROLD J. ROAST.

FACILITIES FOR GRADUATE STUDY

Library.—A working library of metallurgical books, periodicals, the proceedings of scientific and technical societies, and a file of technical papers and cuttings from journals of metallurgical interest are available in Dr. Stansfield's office. Students have access to the books and periodicals of the Baillie Clemical Library.

Laboratories.—No separate laboratories are available for graduate students, but they have the use of the general laboratories of the Department. The equipment available for their use may be summarized as follows:—

Furnaces for the production of moderate and high temperatures, using solid or gaseous fuel or electrical heat.

Apparatus for the measurement of high temperatures, for the automatic recording of these temperatures and for automatic control of furnace temperatures.

Appliances for holding, measuring and analyzing gases and for studying the reactions between these gases and ores or other materials.

A chemical laboratory in which chemical analyses and small scale experiments in hydro-metallurgy can be made.

Facilities for making fire-assays of ores and metallurgical products.

Apparatus for the microscopic and physical testing of metals and alloys.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. **General Advanced Metallurgy.** A series of advanced studies of the theory and practice of metalurgy, taken from the following list:—

Physical properties and allotropic changes of metals.

Constitution and properties of metalic alloys.

Constitution and properties of slags and mattes.

Chemical equilibria, thermo-chemistry and speed of chemical reactions in metallurgical practice.

Design and efficiency of fuel-fired and electrical furnaces.

Properties, cleaning and utilization of furnace gases.

Electrolysis as applied to the refining and recovery of metals.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Dr. Stansfield, Mr. Sproule and Mr. Roast.

B. The same as A, but including a special study of one or more selected metals, or of some special branch of metallurgy, such as electro-metallurgy or hydro-metallurgy. (Alternative with A).....Dr. Stansfield.

C. The same as A, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with A).....Dr. Stansfield and Mr. Sproule.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

D. **Advanced Metallurgy.** Fourth Year Applied Science, No. 272.

Two hours lectures.....Dr. Stansfield.

E. **Electro-Metallurgy and Laboratory.** Fourth Year Applied Science, No. 275.

Two hours lectures and one laboratory period in second term.

Dr. Stansfield.

F. **Metallurgical Analysis.** Fourth Year Applied Science, No. 279.
One hour lecture and one laboratory period in second term.
Mr. Roast.

G. **Metallography and Laboratory.** Fourth Year Applied Science, Nos. 280 and 281.
One hour lecture and one laboratory period in first term.
Mr. Roast.

COURSES OF STUDY FOR THE DEGREE OF MASTER OF SCIENCE

Each student is required to follow a course of reading with lecture or tutorial instruction and laboratory work, as outlined above (A to C). He must also take certain Undergraduate Courses, usually in the Department of Chemistry. About one-half of his time is devoted to the investigation of some particular metallurgical problem by directed reading, discussion with the Head of the Department and experimental work in the laboratory. The result of this investigation is presented in the form of a thesis.

As far as possible, the experimental work required for a student's thesis is his own individual work, but two or three students will be permitted to work together on laboratory work for a thesis if it appears necessary, under strict supervision of the Head of the Department.

EXAMINATIONS AND TESTS FOR STUDENTS PROCEEDING TO THE DEGREE OF MASTER OF SCIENCE

Each student is required to take two written examinations, one dealing with the general course of study he has followed, and the other dealing with the subject matter of his thesis. He also takes the regular examinations in any undergraduate subjects included in his course.

NOTE.—Graduates in Chemical Engineering in the Inorganic Option will be allowed to specialize in Metallurgy—including two summers' work and a year of metallurgical study in the Graduate Faculty—and if successful will be given the degree of M.Sc. in Chemistry.

DEPARTMENT OF MINING ENGINEERING

PROFESSOR OF MINING ENGINEERING:—WILBERT G. MCBRIDE.
PROFESSOR OF ORE DRESSING:—JOHN W. BELL.

The Department of Mining Engineering has laboratories for ore dressing and certain kinds of mining work, such as compressed air

generation and measurement. Small scale equipment provides means for the study of crushing and grinding, cyanidation, amalgamation, flotation, screening, classification, filtering, concentration by gravity methods and other processes used in the milling of ores. Particular attention is paid to cyanidation and flotation. In flotation the plant is so arranged that continuous operation is secured, and selective flotation of two or more minerals is carried on under conditions which closely approximate large scale operations in both practice and results obtained. The laboratory also contains facilities for assay, analysis, and microscopic study of the ore and mill products, as well as other aids to advanced investigation work.

The Departmental Library and Reading Room contain the latest books on mining and ore dressing, and a very comprehensive set of periodicals, transactions of the mining and metallurgical societies, government publications and other literature bearing on mining and ore dressing.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Undergraduate Course open to Graduate Students who have not already taken it as Undergraduates.

A. **Mining Engineering.** Course 297 in the Faculty of Applied Science (see Announcement of that Faculty). The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the requirements for the M.Sc. degree for students who have not taken this course while undergraduates....Professor McBride.

Advanced Courses open to Graduate Students only.

B. **Works Organization and Management.** With special reference to Mining Ore Dressing, and Smelting establishments.
One lecture per week for one term.....Professor McBride.

C. **The Settling of Finely Divided Minerals in Water.** Theories of classification and settling, the effect of temperature and of various electrolytes, colloids and flocculents, the calculation of settling rates and the design of settling tanks.
Two lectures and one laboratory period for one term.
Professor Bell.

D. **Classification Laboratory.** Advanced students who wish to supplement Course C will be given one or two laboratory periods per week for one term.....Professor Bell.

E. **Filtration in Ore Dressing and Cyanidation.** Theoretical and practical conditions governing the removal of finely divided and semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus.
One lecture and one laboratory period per week for one term.
Professor Bell.

F. **Filtration Laboratory.** Advanced students who wish to supplement Course E will be given one or two laboratory periods per week for one term.....Professor Bell.

G. **The Cyanidation of Gold and Silver Ores.** Advanced studies of the theory and practice of cyanidation.
One lecture per week for one term.....Professor Bell.

H. **Cyanidation Laboratory.** Advanced students who wish to supplement Course G will be given one or two laboratory periods per week for one term.....Professor Bell.

I. **The Theory and Practice of Flotation.** Advanced studies in flotation, surface tension, etc.
Two lectures per week for one term.....Professor Bell.

J. **Flotation Laboratory.** Advanced students who wish to supplement Course I will be given one or two laboratory periods per week for one term.....Professor Bell.

NOTE.—The Department reserves the right to substitute tutorial instruction in place of set lectures when the classes are small enough to warrant the change. It is also prepared to increase the amount of work in certain of the courses when desirable.

Permission will be given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in the working up of results and in the writing of the thesis will be allowed. Otherwise students will be disqualified.

DEPARTMENT OF ORIENTAL LANGUAGES AND LITERATURE

PROFESSOR OF HEBREW AND SEMITIC LANGUAGES, LAW AND HISTORY:—
C. A. BRODIE BROCKWELL.

PROFESSOR OF HEBREW:—ALEXANDER R. GORDON.

PROFESSOR OF JEWISH HELLENISTIC LITERATURE:—
GEORGE ABBOTT-SMITH.

The University Library has a fair collection of the more essential books for graduate work, supplemented by the collections in the Library of Divinity Hall, and the Libraries of the Affiliated Theological Colleges. The Egyptian, Babylonian and Palestinian Archæological Collections in the University Museum are also available to students.

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. Special Texts.

Seminar, one hour .....Professor C. A. Brodie Brockwell.
Seminar, one hour .....Professor A. R. Gordon.
Seminar, one hour .....Professor G. Abbott-Smith.

B. History of Old Testament Criticism.

Seminar, one hour .....Professor C. A. Brodie Brockwell.

C. History of Israel to the Exile.

Seminar, one hour .....Professor A. R. Gordon.

D. History of Israel During the Persian and Greek Periods.

Seminar, one hour .....Professor A. R. Gordon.

E. Semitic Anthropology.

Seminar, one hour .....Professor C. A. Brodie Brockwell.

F. Semitic Epigraphy.

Seminar, one hour .....Professor C. A. Brodie Brockwell.

G. Christian Hellenistic Texts.

Seminar, one hour .....Professor G. Abbott-Smith.

H. Hellenistic Grammar, Syntax and Lexicography.

Seminar, one hour .....Professor G. Abbott-Smith.

I. Critical Use and Values of Hellenistic Documents.

Seminar, one hour .....Professor G. Abbott-Smith.

Students must have Second Class Honours from a Semitic Language Department to be eligible for the above courses.

N.B.—By arrangement with the Department, a selection of these courses may be taken, and additional courses will be added to meet individual needs.

PATHOLOGY AND BACTERIOLOGY

Pofessor of Pathology:—Horst Oertel.
Professor of Bacteriology:—F. C. Harrison.
Assistant Professor of Bacteriology:—A. A. Bruère.
Assistant Professor of Pathology:—Theo. R. Waugh.
Lecturer in Bacteriology:—W. W. Beattie.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

All courses in Pathology and Bacteriology are given in the Pathological Institute (a building of three floors and a basement containing the shop and attached animal house), which contains ample, fully equipped quarters for routine as well as advanced workers. The technical department provides facilities for studying and taking part in technical procedures in pathological and bacteriological research.

A. *Pathology*

*A. **The Historic, Philosophic and Scientific Foundations of Pathology.** An exposition of the historical and philosophical evolution of the conception of disease, pathogenesis and the structural changes incident to it.
Two lectures and demonstrations.....Professor Oertel.

B. **Modern Tendencies and Currents in Pathology.**
One hour weekly, second term.....Professor Oertel.

*C. **The Hæmatopoietic System; Technique, Methods, Physiology and Pathology.**
(Open also to *advanced* undergraduates.)
One lecture and demonstration.....Professor Waugh.

D. **Special Problems in Hæmatology.**
Seminar, twice weekly.....Professor Waugh.

E. **Research Into Hæmatological Problems.**
Professor Waugh.

F. **Practicum and Colloquium in Pathological Anatomy.** A discussion of the weekly routine work carried on in the Pathological Institute with demonstration of material and review of the recent literature pertaining to the points discussed.
One colloquium weekly.....Professor Oertel.

G. **Research Into Problems of Pathology.**
Professor Oertel.

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* These courses are also open to undergraduates.

H. **Technical Course of Methods of Pathological Investigation.** (According to arrangement.) (Required of all candidates as prerequisite for undertaking research.)

B. *Bacteriology*

*A. **Systematic Bacteriology.**

One lecture and three laboratory exercises, one semester.
Professor Harrison.

B. **Industrial Bacteriology.** A general survey of bacteria as related to the industries.

One lecture and six laboratory exercises for the year; six colloquia.....Professor Harrison.

C. **Dairy Bacteriology.** A comprehensive survey of the bacteria of milk and its products.

One lecture and six laboratory exercises for the year; six colloquia.....Professor Harrison.

*D. **Lectures and Systematic Laboratory Exercises in Bacteriology, including the Consideration of the Important Pathogenic Micro-organisms and their Cultivation and Identification.**

Two lectures, first term.....Professor Bruère and Dr. Beattie.

E. **Practicum and Colloquium on the Methods and Technique of Serological Blood Examinations.**

One colloquium, second term.....Professor Bruère.

F. **Bacteriological and Serological Methods for Isolation of Pathogenic Micro-organisms Applied to Diagnostic Purposes and to Specific Organs.**

Daily, second term.....Professor Bruère and Dr. Beattie.

G. **Research Into Problems of Immunity.**

Throughout the session.....Professor Bruère.

Candidates for the degree of M.Sc. must take Course A and a selection of two or three of the above Courses B to G.

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* These courses are also open to undergraduates.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates for the degree of Doctor of Philosophy, if they desire to devote their attention more particularly to pathology, will take the other courses in that subject, and if they wish to follow more especially the study of bacteriology, they will take Courses A to F. In either case additional courses will be provided, if necessary, to meet the instruction requirements.

The training for the Ph.D. in bacteriology is designed as a preparation for persons who intend to devote themselves primarily to research.

Intending students should have a background of information regarding the structure and function of living organisms. This implies familiarity with biology, comparative anatomy and histology. An acquaintance with analytical chemistry, experience in organic chemistry, and the elements of physical chemistry are indispensable. Certain aspects of physiology are also desirable.

Arrangements may be made by which candidates for either of these degrees may take a part of their work in the Department of Bacteriology at Macdonald College if they desire to do so.

DEPARTMENT OF PHARMACOLOGY

PROFESSOR OF PHARMACOLOGY:—RAYMOND L. STEHLE.

ASSISTANT PROFESSOR:—N. B. DREYER.

The laboratory is adequately equipped for research work in both the physiological and chemical aspects of the subject; working conditions are unusually satisfactory. A small library, for which the department is largely indebted to the interest of Dr. A. D. Blackader, contains the current literature most frequently desired.

Candidates for higher degrees must present evidence of suitable preparation in chemistry and physiology and must have completed the course in pharmacology as given to medical students.

It is strongly recommended that the student have a reading knowledge of German and French. If he has not he will be expected to begin making up these deficiencies immediately.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. Advanced Pharmacology. This consists of laboratory work of a more advanced nature than that of the course given to medical students together with such reading and conferences as appear desirable. There are no formal lectures. The mini-

mum of work which may be done consists of thirty laboratory periods of three hours each and reading and conferences to the extent of thirty hours. This course is suitable for anyone desiring to take a minor in pharmacology. For students majoring in pharmacology the course will be suitably extended, and in addition a piece of original investigation must be carried through.

B. **Chemical Pharmacology.** Fifteen lectures or the equivalent in reading and conferences on the chemistry (chiefly organic) of drugs.

C. **Colloquium.**
One hour weekly.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Special arrangements can be made for anyone desiring to proceed to a doctorate.

DEPARTMENT OF PHILOSOPHY

PROFESSOR OF LOGIC AND METAPHYSICS:—IRA A. MACKAY.
PROFESSOR OF MORAL PHILOSOPHY:—C. W. HENDEL.
ASSOCIATE PROFESSOR OF PHILOSOPHY:—A. J. D. PORTEOUS.

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A. **Political Philosophy.**

*B. **Modern Logic and Metaphysics.**

*C. **Kant and his Influence on Modern Philosophy.**

*D. **Seminar on Plato and Aristotle.** (Not given in 1930-31.)

*E. **Seminar on Contemporary Philosophy.**

F. Seminar courses will be offered on the special fields of philosophy in which candidates are studying for their theses.

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* These courses are also open to undergraduates.

DEPARTMENT OF PHYSICS

PROFESSORS:—A. STEWART EVE.
HOWARD T. BARNES.
LOUIS V. KING.
A. NORMAN SHAW.
DAVID A. KEYS.

ASSOCIATE PROFESSORS:—J. STUART FOSTER.
HERSCHELL E. REILLEY.

LECTURER IN ASTROPHYSICS:—A. V. DOUGLAS.

The Physics Departmental Library, a branch of the main University Library, is one of the major assets of the Department of Physics. It includes 1,750 books, 122 current periodicals, 460 bound volumes of periodicals, 2,000 reprints, and current catalogues of apparatus and books. The regulations permit staff and students to take out books for the night only, so that during the daytime it is always a nearly complete Reference Library. After five years most of the bound periodicals are removed to the main University Library across the Campus, where the older reference books may also be found.

As regards equipment and apparatus, there is a well equipped workshop under Mr. H. T. Pye, with two assistants. In Optics there are gratings and spectographs, including infra-red and ultra-violet instruments by Hilger; also a Moll apparatus for stellar and atomic spectra. The Electrical and Heat Laboratories are also well equipped, both for instruction and research work. The Röntgen Ray apparatus for crystal analysis is modern and varied. The provision for research is best estimated by the work carried out as stated below.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY.

***A. Electrical Measurements.**

A general course in electrical measurements with special attention to the eheory and practice of accurate measurements of the quantities associated with direct and alternating current circuits.

Wed., Fri., at 9; laboratory, Wed., 11–1; 2–4.

Mr. H. G. I. Watson.

Text-books:—Law's Electrical Measurements (McGraw-Hill); Starling's Electricity and Magnetism (Longmans).

* These courses are also open to undergraduates.

*B. **Light.** (Replaced by F in alternate sessions.†)
The elements of geometrical optics; classical physical optics; laboratory instruction in interference, diffraction, polarization phenomena and spectroscopy.
Mon., at 9 (laboratory; Mon., 2–5).
Professor Keys and Dr. A. V. Douglas.
Text-books:—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan); Drude's Physical Optics (Longmans).

*C. **Electromagnetic Theory.**
The mathematical theory of electricity; Maxwell's Equations; the classical electro-magnetic theory of light; electric waves.
Sat., at 10.....Professor Keys.
Text-books:—J. J. Thomson's Electricity and Magnetism (C.U.P.); Pierce's Electric Oscillations and Electric Waves (McGraw-Hill).

*D. **Mathematical Physics.**
An introductory course, including the elements of potential theory, hydrodynamics, conduction of heat, thermodynamics and wave theory. Problems.
Tu., Sat., at 11.....Professor Foster.
Text-books:—Houston's Introduction to Mathematical Physics (Longmans).

*E. **Molecular Physics.**
A review of the advances in Molecular and Sub-molecular Physics during the last thirty years; including an elementary introduction to modern theories of the structure of matter, the quantum theory, and the theory of electrons.
Wed., Fri., at 9.....Professor Shaw.
Text-book:—Crowther's Ions, Electrons and Ionizing Radiations (E. Arnold).

*F. **Theory of Heat.** (Replaced by B in alternate sessions.†)
A reading course based on the assigned text, supplemented by weekly colloquia at which selected topics will be discussed in detail, including an introductory course of eight lectures on Thermodynamics. Each student is required to perform ten fundamental experiments in Advanced Heat.

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* These courses are also open to undergraduates.

† Courses B and F will be given in alternate sessions, as follows:—B in '30-'31, etc., and F in '31-'32, '33-'34.

Mon., at 9 (also three hours laboratory‡).
Professor Shaw and Dr. A. V. Douglas.
Text-book:—Preston's Theory of Heat (Macmillan).

G. Radioactivity.

This course follows the historical development from the beginning to to-day. Professor Eve.
Tu. and Wed., at 12; three hours laboratory, second term.
Text-book:—Rutherford's Radioactivity Transformations (C.U.P.).

H. Vector Analysis.

Tu., at 9; Wed., at 10, first term.....Professor Eve.
Text-books:—Collin's Victor Analysis, with references to other books by Wilson, Silberstein, Lorentz, Heaviside and others.

I. Advanced Statics, Dynamics, Hydrodynamics and Sound.

A continuation of Course 5, dealing largely with problems in three dimensions. Training in problem work is a special feature of this course.
Two hours.....Professor King.
Text-books:—Lamb's Higher Mechanics (C.U.P.); Basset's Hydro-dynamics and Sound (Deighton Bell). References to Lamb's Dynamical Theory of Sound (Arnold); Lamb's Hydrodynamics (C.U.P.); Raleigh's Theory of Sound (Macmillan and Co.).

J. Kinetic Theory of Matter.

A development of the theory of gases, including the theory of electrons in metals.
Two hours.....Professor King.
Jeans' Dynamical Theory of Gases (C.U.P.); Reference Loeb's Kinetic Theory of Gases (McGraw-Hill).

K. Quantum Theory.

This course follows the historic development from Planck to recent work, with the elements of Wave Mechanics.
One hour; Th., at 12, October to March.....Professor Foster.
Text-books:—Birdwhistle's Quantum Theory of the Atom (C.U.P.; Sommerfeld's Atomic Structure (Methuen).

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‡ The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

L. Relativity.

Introduction to modern theories of relativity. Specialized relativity, an introduction to generalized relativity with recent developments, including the mathematical analysis involved.

One hour, second term.....Professor Gillson.

M. Advanced Electricity and Magnetism.

Training in problems of an advanced character is specially emphasized.

Two hours.....Professor King.

Text-books:—Jeans' Electricity and Magnetism (C.U.P.).

Reference:—Gray's Absolute Measurements in Electricity and Magnetism (Macmillan).

N. Laboratory Practice and Physical Manipulation.

A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.

Mr. H. T. Pye and Mr. S. Amesse.

O. Thermodynamics.

(Alternate sessions, 1930-31, etc.).

A general course with special attention to the physical basis of thermodynamical concepts, and to the technique of deriving and applying thermodynamical relations.

One hour.....Professor Shaw.

Text-book:—Birdwhistle's Thermodynamics.

P. Electron Theory.

A development of the theory of optical dispersion, molecular scattering of light, theories of magnetism, electrical and thermal conduction in metals, thermionics, and fundamental properties of the electron.

Two hours.....Professor King.

Text-books:—Richardson's Electron Theory (C.U.P.); Lorentz, Theory of Electrons (Teubners).

Reference:—Reports of the Solvay Congresses and current scientific literature.

Q. Spherical Astronomy and Combination of Observations.

Text-books:—Ball's Spherical Astronomy; Newcomb's Spherical Astronomy.

Three hours.....Professor Gillson.

(Math. 3 and 4, prerequisite.)

R. Astrophysics.

Spectroscopy as applied to the problems of Astrophysics; the temperatures, sizes, positions and notions of the stars, with practical measurements on typical stellar spectrograms.

Three hours.....Dr. A. V. Douglas.

Text-books:—Russell's Astronomy, vol. ii (Ginn); Dingle's Astrophysics (Collins); Stratton's Astronomical Physics (Methuen).

(Math. D and F, and Physics 5B prerequisite.)

Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in the summer.

A suitable selection of the above courses may be made when Physics is taken as a minor subject. A general paper on elementary physics is also given when Physics is a minor subject.

EXAMINATION AND THESIS REQUIREMENTS

Prerequisite.—The equivalent of the McGill Undergraduate Honour Course in Mathematics and Physics. A sound knowledge of differential and integral calculus, differential equations, and some acquaintance with the theory of functions; analytical geometry, plane and solid; statics, dynamics of a particle, rigid dynamics, electromagnetic theory and electrical measurements; geometrical and physical optics; theory of heat; properties of matter; an introduction to mathematical physics and to molecular physics, and at least elementary chemistry.

M.Sc. Course and Requirements.—A thesis on research work; a reading knowledge of French *or* German; a good standing in examinations on lecture courses on radioactivity, vector analysis, quantum theory, advanced electricity and magnetism; differential equations of mathematical physics.

Ph.D. Course.—Completion at the beginning of the Second Year of an examination proving a reading knowledge of French and German; research work; thesis on research work; further courses and acquaintance with modern physics, e.g., kinetic theory, relativity, thermodynamics, hydrodynamics, electron theory, wave mechanics, Rontgen rays, spectroscopy, astrophysics, geophysics. After taking the M.Sc. Degree a student may present himself one year later for a written and oral examination whereby he may show his general knowledge of modern

physics, together with a special knowledge of some branch in which he is interested. Four papers are set each candidate at the end of May, and special attention will be paid to the solution of problems set in those papers.

Final Year.—After passing the above examination the student will devote most of his time to research, and to the allied theoretical work and reading, so that time will also be devoted to work in the library, and to conferences or colloquia. After his thesis is accepted there is an oral examination on the regions of Physics to which his research work is related.

Attendance at meetings of the Physical Society, Journal Club, and colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students. The above statement is descriptive of past experience. Every effort will be made by the Department to encourage enterprise in research, and originality and sound thinking, to which end all regulations are secondary and subservient.

Opportunity for research work in the following fields is at present offered in the Physics Department, under the guidance of the Professors indicated.

PROFESSOR A. S. EVE.

Radioactivity.
Atmospheric electricity.
Geophysics.
Infra-red and ultra-violet spectroscopy.

PROFESSOR H. T. BARNES.

Ice Research.

PROFESSOR L. V. KING.

Theoretical physics.
Precision measurements in acoustics.
Electrical measurements.

PROFESSOR A. N. SHAW.

Hygrometrical theory and measurement (application to physical problems in ventilation and drying processes).
The measurement and theory of heat transmission across boundaries.
Thermoelectricity.
Precision measurements of electrical resistance and voltage.

Professor D. A. Keys.
The phenomena of the discharge tube.
The theory and application of piezo-electricity to the phenomena of explosions, pressure variations in engines and specific heats of gases.
Spectroscopy.
Geophysics.

Associate Professor H. E. Reilley.
The acoustics of auditoriums, churches and offices, and the determination of acoustic properties of building materials.

Professor J. S. Foster.
The Stark-effect.
The Zeeman-effect.
Spectroscopy.

Dr. A. V. Douglas.
The investigation of stellar spectra.
Variable stars.
Spectroscopic binaries.
Absolute magnitudes.

Dr. C. T. Lane.
Magnetism.

Dr. W. H. Barnes.
X-ray analysis.

DEPARTMENT OF PHYSIOLOGY

Professor of Physiology:—John Tait.
Research Professor:—B. P. Babkin.
Assistant Professor:—N. Giblin.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. Lectures on Autonomic Nervous System. Professor Babkin.

B. Lectures on Selected Advanced Topics...Professor Giblin.

C. Lectures on Structure and Function.....Professor Tait.

D. Advanced Laboratory.

E. Physiological Colloquium.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

The advanced courses in physiology have been designed with two things in view: (1) to provide higher training for graduates who look forward to an exclusive academic career either in physiology or in some cognate branch of biological or medical science; (2) to offer increased facilities of study to the younger clinicians of the school. The work is arranged to meet the individual needs of each student.

DEPARTMENT OF PSYCHOLOGY

PROFESSOR:—WILLIAM D. TAIT.

ASSOCIATE PROFESSOR:—CHESTER E. KELLOGG.

The Psychological Laboratory is adequately equipped with apparatus for original investigation in all branches of human psychology, including abnormal and applied. The research rooms are provided with gas, compressed air, 110-volt D. C. current, 6 and 8-volt battery circuit from storage batteries and electrical inter-room connections. There is a workshop, sound-proof room and photographic dark room.

The Library is well supplied with nearly all the leading English, German, French and Italian periodicals, monographs, and other special publications in addition to the standard works in each language.

COURSES FOR M.A. AND PH.D.

A. Psychological Laboratory. Experimental investigations in human psychology under the immediate direction of members of the Department. Laboratory conferences are held monthly, at which students receive constructive criticism in their work.

Professors Tait, Kellogg and Bridges.

B. Seminar in Feelings and Emotions. History of the problem, physiological correlates, methods of investigation and results, measurement, theories, etc.

Professor Tait.

C. Seminar in Systematic Psychology. Sources of modern psychology. (Given in 1930-31.)

Associate Professor Kellogg.

D. **Abnormal Psychology.** Relation between normal and abnormal mental life, disorders of the senses and higher processes, disturbances of personality, conflict, dissociation, etc.

E. **Advanced Psychology.** The psychology of William James. (Given in 1930-31.) Professor Tait.

F. **Advanced Statistical Methods.** Associate Professor Kellogg.

NOTES REGARDING THE ABOVE COURSES

1. Admission to this course will be limited to students who have taken honours in Psychology for their B.A. degree or its equivalent. The term "equivalent" will be used in a restricted sense, and no student coming from any other university will be admitted to study for an advanced degree unless his training has been of a kind to amply equip him to undertake it.

2. The first year of the course will consist of 12 hours per week, at least, of regular work, including lecture courses, seminar and research work, and, with a satisfactory thesis this year, will qualify for the Master's degree.

3. The second year will consist of an equal number of hours of work, but more time will be devoted to research; for example, one seminar, one lecture course, and the remainder of the time to research, or two seminars and the remainder of the time to research would be required this year.

4. In the third year at least eight hours will be given to research and the remainder to seminars and lectures.

5. In addition to the regular work of the Department, the student will have to prepare the usual standard Doctor's thesis based upon personal investigation and research.

6. All students will be required to have a knowledge of advanced statistical methods such as correlation, partial correlation, regression equations and methods of testing the reliability of psychological measurements.

7. Candidates will be required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, so far as these subjects are cognate to scientific Psychology.

8. A certain amount of ability in shopwork, enough at least to show that the candidate is capable of designing and constructing simple apparatus, will also be required.

9. The preliminary examination for Ph.D. will include history of philosophy, logic, principles of psychology, experimental and physiological psychology, statistical methods, contemporary psychology.

10. At the thesis examination the candidate will be expected to show an accurate knowledge of the whole field in addition to his special field.

—NOTE.—For other Courses, see pages 210 to 213.

DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR:—R. DU ROURE.

ASSISTANT PROFESSORS:—{ LUCIE TOUREN FURNESS. ———.

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. **Comparative Literature** (Department of English, Course 16).
Three hours.....Assistant Professor Noad.

B. **Methodologie.**
One hour.....Professor du Roure.

C. **Etude sur le théâtre contemporain.**
Two hours.....Professor Furness.

D. **Exercices pratiques** (Colloquia).
One hour.

*E. **Histoire du roman en France.**
Three hours. (Given in 1930-31.).....Professor du Roure.

*F. **Histoire de la langue française.**
Three hours. (Given in 1931-32.).....Professor d'Hauteserve.

* These are also Honour courses in the Faculty of Arts.

mcgill 1930-31

*G. Histoire de la poésie lyrique en France.
Three hours. (Given in 1931-32.).....Professor du Roure.

Candidates for the Master's degree in French only will take courses A to D inclusive, and also one of E, F. G.

Those taking French as a major will omit A and either B or C.

Those taking French as a minor will take D and one of the one-hour courses.

The M.A. thesis must be written in French

THE SUMMER SESSION COURSES

A student taking one session of the advanced course in the French Summer School will be exempted from the corresponding number of hours for the M.A. degree.

A student taking two sessions of the advanced course will be exempted from half of the regular session.

A student taking four sessions of the French Summer School advanced course will be exempted from attendance during the regular session and will receive the M.A. degree on presenting an acceptable thesis in French under the direction of the Department.

DEPARTMENT OF SOCIOLOGY

ASSOCIATE PROFESSOR:—CARL ADDINGTON DAWSON.
ASSISTANT PROFESSOR:—EVERETT CHERRINGTON HUGHES.

Facilities consist of:—

(1) *Seminar room,* with facilities for mapping and charting of social data. Basic population and other social data already collected are accumulating rapidly. All such data remain available to students.

(2) *Library.*—Graduate students are alloved special privileges in the University Library. This library contains (a) the standard works on social theory, social institutions and cultural anthropology and (b) census reports, special monographic studies and other material necessary to research. Additional sources of material are the other libraries of Montreal, especially the various French ones and the archives of the city, which contain original data. Through the courtesy of various governmental departments, certain original data and records in Ottawa are available to graduate students with a formulated research problem.

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* These are also Honour courses in the Faculty of Arts.

(3) *Research.* (a) National problems.—The data necessary to research will vary according to the nature of the problem. Where the data are a matter of record, Montreal has an advantage by virtue of its position as the headquarters of many national organizations as well as by its proximity to Ottawa. (b) The city of Montreal.—In social research the first requisite is a community in which social processes can be seen and studied at first hand. Montreal, a large and complex city, furnishes an array of research problems unequalled elsewhere in Canada. The Department of Sociology has undertaken an organized programme of urban research under competent direction. The student has, therefore, the double advantage of a wide range of problems and of contributing to an accumulative scheme of research.

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A. The Community.

A study of Greater Montreal in comparison with the small town and open country communities; analysis of the basic forces that condition the social life and social institutions of the great community; the trend of urbanization and its effects on human behaviour; cities as centre of dominance and culture. (Given in 1931-32.).....Dr. Dawson.

*B. Social Origins

The culture and social organization of primitive or pre-literate peoples, including anthropological data on:—Marriage and kinship; property and the division of labour; magic, religion and science; taboos, customs and morals; myth, folklore and legend; art, ornament and decoration; war, slavery, punishment and the state; the mind of primitive man; the processes of invention and diffusion in the origin and development of culture.
First term; Mon., Wed., Fri., at 9.....Dr. Hughes.

*C. Social Movements.

The natural history of typical social movements, such as revivals, migrations, revolutions, reform and political movements; classification of such movements; the "life-cycle" of a social movement; social movements in relation to social change.
Second term; Mon., Wed., Fri., at 9.....Dr. Hughes.

NOTE.—The starred courses are also Honour Courses in the Faculty of Arts. Each graduate student who takes this course is required to undertake an original project in addition to the undergraduate requirement.

*D. **Culture Areas in Canada.**

The application of anthropological and sociological methods to the study of culture areas in Canada. These areas are separated from each other by the main physiographic regional divisions. Each region breaks up into the older areas of settlement and pioneer belts. The basic structure and related social and cultural organization of each area will be studied. A comparison of the main culture traits and their diffusion in each area. Research projects to discover the indices of culture organization and social change in the various areas. The conflict of British, American and Canadian culture patterns in Canada.

(Given in 1931-32.).....Dr. Dawson.

*E. **Social Institutions.**

The institution as a unit of social structure and as a bearer of culture; the processes by which institutions arise, develop and die; the life-cycle of such institutions as the sects, the church, the school, the newspaper, etc.; crises and the reorganization of institutions.

(Given in 1931-32.).....Dr. Hughes.

F. **Social Attitudes and Personality.**

Social situations and the development of social attitudes; the process of social conditions in relation to personal organization; social types; problems dealing with the social adjustments of persons. An extensive use of descriptive material, biographical and autobiographical documents.

Hours to be arranged.....Dr. Dawson.

G. **Graduate Seminar:** Research Problems and Methods.

The work of each student will be related to theory and problems in the special field of his dissertation.

Hours to be arranged.....Dr. Dawson and Dr. Hughes.

Written examination in each course of study and a general theory examination will be required of each candidate.

NOTE.—The starred courses are also Honour Courses in the Faculty of Arts. Each graduate student who takes this course is required to undertake an original project in addition to the undergraduate requirement.

DEPARTMENT OF THEOLOGICAL STUDIES

PROFESSOR OF JEWISH HELLENISTIC LITERATURE, McGILL UUIVERSITY:—
GEORGE ABBOTT-SMITH.

PROFESSOR OF CHURCH HISTORY, CO-OPERATING THEOLOGICAL COLLEGES:—
O. W. HOWARD.

PROFESSOR OF CHURCH HISTORY, CO-OPERATING THEOLOGICAL COLLEGES:—
WILLIAM A. GIFFORD.

PROFESSOR OF HEBREW, McGILL UNIVERSITY:—ALEX. R. GORDON.

PROFESSOR OF NEW TESTAMENT LANGUAGE AND LITERATURE,
CO-OPERATING THEOLOGICAL COLLEGES:—JAMES SMYTH.

PROFESSOR OF HISTORY AND PHILOSOPHY OF RELIGION,
CO-OPERATING THEOLOGICAL COLLEGES:————————.

A selection from the following courses may be taken as fulfilling the requirements of a minor subject for the degree of Master of Arts.

OLD TESTAMENT

A. Introduction—Canon, Text and Introduction to the Historical Books. Exegesis—Selections from the Historical Books or Prophetical Books.

Three hours a week throughout the year....Professor Gordon.

NEW TESTAMENT

B. Introduction. Course in three parts.

(1) History of New Testament times.
(2) Canon and Text.
(3) The Language of the New Testament.

Three hours a week throughout the year.
Professor Abbott-Smith.

C. Introduction to the Acts and Pauline Epistles; and Exegesis (Greek) of the Epistles to the Galatians and Ephesians.

Three hours a week throughout the year.....Principal Smyth.

D. Introduction to the Catholic Epistles; and Exegesis (Greek) of the Epistles of St. James, First St. Peter, and First St. John.

Three hours a week throughout the year.
Professor Abbott-Smith.

E. **The Rise and Progress of Protestant Christianity in Europe until the close of the 16th Century.**
Two lectures a week with weekly colloquium....Prof. Gifford.

F. **History of the Christian Church in the First Six Centuries.**
Two lectures a week with weekly colloquium....Prof. Howard.

G. **History and Comparative Study of Religions — chiefly Hindu, Buddhist, Zoroastrian and Mohammedan (Islam).**
Two hours a week for two terms.....——————.

DEPARTMENT OF ZOOLOGY

PROFESSOR:—ARTHUR WILLEY.
ASSISTANT PROFESSOR:—N. J. BERRILL.
LECTURER:—MRS. K. PINHEY.

All equipment necessary for courses mentioned below; Microscopes, microtomes, reagents and glass ware and material supplied. The Blacker Library of Zoology is very complete.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

*A. **Comparative Anatomy of Invertebrata.**
A survey of organization, biology, and affinities of each of the principal groups of invertebrate animals; examination and dissection of representative animals; mode of life and response to environmental stimuli.
Two lectures a week and four hours laboratory throughout the session .....Professor Berrill.

*B. **Biological Colloquium.**

*C. **Zoology of Vertebrata.**
Comparative anatomy of vertebrates with dissection of leading types in each of the classes, and their general biology.
Two lectures a week and three hours laboratory throughout the session.....Professor Willey.

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* These are also Honour courses in the Faculty of Arts.

*D. Comparative Embryology.

Comparative study of the development of the principal types of invertebrates and vertebrates; survey of recent work in experimental embryology, regeneration, transplantation and tissue-culture.

Two lectures a week and two hours laboratory in the second term .....Professor Berrill.

E. Experimental Zoology.

Studies in comparative physiology of animals; animal behaviour and adaptation.

Two lectures a week and two hours laboratory in the second term.....Professor Berrill and Mrs. K. Pinhey.

F. Marine Biology.

Physical chemistry of sea-water; methods used in oceanographical research; physical and chemical analyses of sea-water; maintenance and study of marine aquaria; relation of animal life to variable factors of sea-water; fishery problems.

Two lectures a week and two hours laboratory in the second term .....Professor Berrill.

G. Systematic Zoology.

Principles of classification, divergence, and convergence.

One hour a week throughout the session.....Professor Willey.

Prerequisites for graduate courses are Zoology 1 and Zoology 2 or 4.

The candidate shall pass an examination in each subject of his course except the Biological Colloquium. Oral examinations will be held at the discretion of the examiners.

Candidates for the Ph.D. in Zoology will be required to take at least one summer course at Wood's Hole or other marine station.

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* These are also Honour courses in the Faculty of Arts.

DEPARTMENT OF PHARMACY*

GENERAL ANNOUNCEMENT

The Montreal College of Pharmacy, organized as a teaching body in 1867, for fifty years successfully carried on the work of instructing pharmaceutical students, and for many years it was the only institution in the Province of Quebec offering such instruction.

During the summer of 1916 this College was taken over by McGill University, and a Department of Pharmacy was established in connection with the Faculty of Medicine.

Special instruction on all subjects required by the future pharmaceutical chemist is given in the class room and laboratories of the University, the students of Pharmacy having access to its splendid equipment.

The work of the Department embraces courses in Botany, Physics, Chemistry and Practical Chemistry, Theoretical and Practical Pharmacy, Dispensing, Materia Medica and Toxicology.

The fourteenth session of this Department will be opened on Wednesday, October 1st, 1930.

The course in Pharmacy covers a period of three years, the work being distributed as follows:—

First Year

Physics, Junior Chemistry and Junior Practical Pharmacy.

Second Year

Materia Medica, Junior Theoretical Pharmacy, Senior Chemistry and Botany.

Third Year

Materia Medica and Therapeutics, Analytical Chemistry and Senior Practical Pharmacy.

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* Work in this Department will be discontinued when the students now in attendance have finished their course. No more new students will be admitted.

ENTRANCE REQUIREMENTS

For entrance into the Department of Pharmacy the University accepts the preliminary examination of the Pharmaceutical Association of the Province of Quebec in default of the B.A. degree or Arts matriculation (B.A. Course), particulars of which will be found in the Arts Announcement.

The regulations regarding the Preliminary Examination of the Pharmaceutical Association of the Province of Quebec are as follows:—

A diploma of Bachelor of Arts, Science or Letters from a Canadian or British University is accepted in lieu of the preliminary examination. In this case the candidate must register his application with the Secretary of the Association, and produce his diploma, together with personal proof of his identity.

The candidate for the study of Pharmacy must give satisfactory certificates of good morals, as well as identification and a recent photograph duly attested. He must be a British subject of the male sex and not less than seventeen years of age. He is also required to pay the fee in advance.

The examination which the candidate is required to undergo embraces the following subjects:—

GROUP I. LETTERS.

1. Mother tongue (English or French):—Dictation, grammar, syntax, analysis, composition. English candidates will also be required to have a critical knowledge of Shakespeare's "Macbeth."

LITERATURE:—The study of the principles of *Belles Lettres* and *Rhetoric;* notions of the different classes of literature; a knowledge of the principal authors who have especially exemplified these different classes in Greek, Roman, French and English literature.

2. Auxiliary language (English or French):—Translation in both languages (books recommended, "Telemaque," and "The Vicar of Wakefield," by Oliver Goldsmith), grammar and syntax. (French for English candidates and English for French candidates.)

3. Latin.—Virgil, book VI; Cicero, "Pro Milone." A *sound* knowledge of grammar and syntax as exemplified in the texts chosen.

4. History.—Canadian, French, English and United States.

5. Geography.—Notions on universal geography—a special knowledge of the geography of France, England and North America.

GROUP II. SCIENCES:—

1. Arithmetic.

(a) Ordinary and decimal fractions, single and compound proportion, interest, percentage and square root; problems.

(b) Units of measure in use in Canada—"Linear, surface and volume"; metric system.

(c) Mensuration:—Computation of areas and volumes of simple geometrical figures; problems.

2. Algebra:—Fractions and equations of the first degree of one or more unknowns.

Geometry:—The first four books of Euclid; proofs.

3. Physics and Chemistry.

Physics:—Elementary notions on mechanics, weight, hydrostatics, pneumatics, capillarity, osmosis, optics and heat.

Chemistry:—General knowledge, definitions, the elements, principal laws of chemical reactions, properties of the principal metalloids and their compounds.

For admission the candidate must obtain at least the following percentage in the different subjects:—

Mother tongue and arithmetic, 60 per cent; other subjects, 50 per cent; and, on the total, 60 per cent.

The candidate who fails in one subject only of the above groups, either of letters or of sciences, may present himself for examination in that subject at any one of the four subsequent examinations.

The candidate may try for science or letters at different examinations, separately, or for both of these two groups at the one examination. Clear and legible writing is required.

Fee, $20.00, or $10.00 for each group.

The preliminary examinations for admission are held in Montreal and Quebec, the first Thursday of January and July of each year.

The registration of candidates for the examination must be made at the office of the Registrar of the Association at least ten days before the date set for the examinations. A blank register form can be obtained from the Registrar, and must be signed by the candidate.

The major and minor examinations are held at Montreal in April, and at Quebec in the Autumn.

REGISTRATION

Students in Pharmacy are required to register at the office of the University Registrar between September 24th and September 30th, both dates inclusive. Students entering on or after Wednesday, October 1st, will not be allowed to register until they have paid a late registration

fee of $5.00 during the first week of the session, and $10.00 during the second. This will not be refunded except for satisfactory reasons and by special authorization of the Faculty.

EXAMINATIONS

Examinations in each subject are held at the close of the course. Students who pass in all subjects of the curriculum, as required by the Pharmaceutical Association of the Province of Quebec, will receive the University Diploma of Pharmacy. The pass requirements are 50 per cent in each subject and 60 per cent on the whole. Seventy-five per cent is required for honours. The examination requirements of the Pharmaceutical Association of the Province of Quebec for license to practice Pharmacy in the Province are stated on page 535.

FEES

All students must register with the University Registrar before paying their fees.

The fees for separate courses will be as follows:—

Registration fee	$ 5.00
Fee for Athletics and Athletic Grounds	*3.00
Course in Junior Chemistry and Physics	30.00
Course in Senior Chemistry	30.00
Course in Junior Materia Medica and Pharmacy	30.00
Course in Senior Materia Medica and Pharmacy	30.00
Course in Practical Pharmacy (Junior)	30.00
Course in Practical Pharmacy (Senior)	30.00
Course in Analytical Chemistry	30.00
Course in Botany	25.00
Diploma fee	15.00
Fee for Supplemental Examination, each subject	5.00

The special day set apart for the payment of fees in Pharmacy is Thursday, October 16th, but they may also be paid before October 1st.

After October 16th a late fee of $2.00 will be charged.

Certain fees are payable to the Pharmaceutical Association of the Province of Quebec for registration, examinations, and for the licentiate in pharmacy. (See page 537.)

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* Students in Pharmacy may, if they so desire, secure the privilege of the skating rinks and tennis courts during the Session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $7.00.

MEDAL

A medal will be awarded to the graduate who obtains the highest total percentage over 80 per cent.

TEXT-BOOKS RECOMMENDED

PHARMACY AND PRESCRIPTIONS:—Remington's Pharmacy; Bennett's Medical and Pharmaceutical Latin; Lucas' Practical Pharmacy; Dispensing, Cooper and Dyer; Bentley's Text-book of Pharmacy.

CHEMISTRY:—Junior and Senior Chemistry.

Reference Book:—Sadtler and Coblentz, Pharmaceutical and Medical Chemistry.

PHYSICS:—Balfour Stewart's Elementary Physics, Ganot's Physics, Peck's Ganot's Physics.

BOTANY:—Gray-Robinson Manual, Kraemer's Applied and Economic Botany.

MATERIA MEDICA:—British Pharmacopœia, Squire's Companion to the British Pharmacopœia, Royal's Materia Medica, Heebner's Synopsis.

TOXICOLOGY:—H. Trumper.

COURSES OF LECTURES

CHEMISTRY

Two courses will be required for the Diploma in Pharmacy, namely, the junior and senior.

Junior Chemistry.—This includes elementary physical science and a university course on the general principles of the science of chemistry. A course in elementary physics will be taken with the students in the School of Commerce and will consist of a series of twenty-five lectures on the principles of physics and their application. The course is non-technical and is intended as an introduction to the course in general chemistry. The course in general chemistry will consist of three lectures per week, given for the students in Arts and pre-medicals, on Monday, Tuesday and Thursday, at two o'clock. In addition to these lectures, there will be two laboratory periods each week of two hours, immediately following the lectures on Monday and Thursday. This course in general chemistry is intended to give a thorough grounding in the fundamental principles governing chemical action and the formation of chemical compounds, organic as well as inorganic.

Senior Chemistry.—The senior course in chemistry will be a short course of laboratory work on the identification and separation of organic and inorganic compounds of special importance in Pharmacy, and will include elementary toxicology, the assay of crude drugs, volumetric analysis, analysis of urine, the use of spectroscope, etc.

PRACTICAL PHARMACY

Junior.—This course will embrace (1) the preparation of a number of typical examples drawn from the official dilute acids, waters, liquors, plasters, extracts, fluid extracts, mixtures, liniments, oleates, syrups, ointments, etc. (2) General principles to be observed, simple and compound powders, mixtures, emulsions, their nature and preparation; pills and pill coating, gargles, lotions, liniments, suppositories, plasters, ointments, cachets, capsules, tablets and tablet triturates, lozenges and pastilles, lamellae, incompatibility, Pharmacy Law.

Senior.—Practical Pharmacy in all its branches will be thoroughly dealt with. The course will include the following subjects:—Clarification, crystallization, decantation, dialysis, distillation, drug grinding, extraction, filtration, heat, metrology, percolation, precipitation, solution, specific gravity, specific volume and vaporization.

In conjunction with the foregoing, the class will practice the modus operandi for the manufacture of different preparations of the B. P., and others, including chemical solutions, elixirs, spirits, plasters, emulsions, ointments, granular effervescent salts, crystal and scale salts of iron, resins, oleo resins, etc.

Particular attention will be given to pharmaceutical assaying. such as opium, ipecac, belladonna, cinchona, nux vomica.

MATERIA MEDICA AND THEORETICAL PHARMACY

Junior.—This will include instruction in pharmaceutical jurisprudence, poison schedules, weights and measures; classification of the official organic drugs, including leaves, flowers, fruits, seeds, herbs, barks, gums, resins, etc., with the geographical source, parts used, and official preparation of each; posology; theoretical pharmacy (embracing the theories of manufacture of the simple preparations of the B. P., such as medicated waters, syrups, tinctures, compounds, powders, pill masses, etc.); dispensing.

Senior.—Complete classification of all official organic and inorganic drugs, giving, in the former, the mode of collection and preservation, geographical and botanical sources, and parts used—and in both instances the constituents and impurities, also the medicinal properties of each, with their preparations (animal drugs, such as pepsin, pancreatin, thyroids, etc., will be dealt with in a similar manner); posology, pharmacognosy; toxicology; theoretical pharmacy (embracing the theories of manufacture of the more complex Galenical official preparations); adulterants, impurities and the methods of detection.

BOTANY

General Botany.—General external morphology of the higher plants (higher cryptogams and phanerogams); anatomy and histology, the latter treated with more especial reference to methods of drug identification by means of the microscope.

General Physiology.—Elementary plant physiology, treated briefly,

Special Botany.—Structure of those plants below the pteridophytes of use or interest to the pharmacist, treated briefly, special morphology of pteridophytes and phanerogams, and their classification. Attention will more especially be given to those families (about 30) of plants chiefly represented in materia medica.

EXAMINATIONS FOR ADMISSION TO THE PRACTICE OF PHARMACY

(1) EXAMINATION TO OBTAIN THE CERTIFICATE FOR ASSISTANT PHARMACIST

To become an Assistant in Pharmacy the candidate must furnish proofs of having registered three years as a student in Pharmacy, also that he has served at least three years under a doctor or druggist duly registered; he must pay the fee required and pass an examination on the medico-pharmacal sciences, Physics, Chemistry and Pharmacy. (Art. 4997, Law of Pharmacy.)

The candidate must be able to read prescriptions in script, translate them into English and French, write fully and legibly all the abbreviated words; point out the doses which are unusual, prepare, label and address properly the prescription, under the scrutiny of the examiner.

The candidate must recognize the Galenic preparations of the B. P., such as extracts, tinctures, powders, etc.; describe the composition of the compound preparations, giving the proportions of their active ingredients, the mode of preparation, and the doses. He must be able to describe properly in the presence of the examiner the different official Galenic preparations.

He must recognize samples of roots, barks, leaves, fruits, etc., employed in medicine, and name the official preparations into which they are incorporated; have a knowledge of the laws of physics and chemical combinations, of the nature and properties of the elements and their compounds, and recognize the acids, oxides, salts and other chemical bodies, described in the B. P., and also give their doses.

(2) FINAL EXAMINATION FOR LICFNTIATE IN PHARMACY

The Final Examination to be passed by the candidate includes all the subjects required for the Assistant in Pharmacy Examinations, but a more thorough knowledge of these sciences is required, also practical analytical Chemistry and Botany.

The candidate will have to describe the methods of obtaining acids, oxides, salts and other chemical compounds described in the B. P., explain the decompositions which take place when they are made, by means of written equations and diagrams, and also possess a good knowledge of the new synthetic products.

He must recognize the more important medicinal plants; know the therapeutics and posology of B. P. preparations, also the non-official plants which are used commonly, know the physiology and anatomy of plants, the shape, structure and characteristics of the roots, barks, leaves, flowers, fruits, etc.; their physiological functions and their natural order.

He will be required to know the best antidotes for urgent cases of poisoning by the ordinary toxics, and must pass in a satisfactory manner the test on practical pharmacy, analytical chemistry, volumetric and urine analyses.

He must also show that he is registered as an Assistant Pharmacist, and give proofs of having duly served four years under a doctor or druggist duly registered; that he has followed for two years the Medico-Pharmacal classes, two years of Physics and Chemistry classes, one year's course in Botany and other natural sciences, according to the programme established in institutions incorporated and authorized by the Council of the Association; pass the examinations on the above subjects, and pay the fee. (Art. 4997, Law of Pharmacy.)

However, the student in Pharmacy or the certified clerk may, if he so desires, give up a whole twelve months exclusively to the study of Pharmacy. (Art. 4997.)

The Board of the Pharmaceutical Association will accept only one course in any subject in the same year; classes attended during the same scholastic year in different schools will count for one course. Private or academy classes will not be accepted.

At the Junior and Final Examinations, students must obtain 40 per cent of points on each subject, at the written examinations, and 50 per cent on the total number of points, to be admitted to the oral examinations; but the student who passes satisfactorily the written examination is not obliged to begin it over again if he fails in the subsequent oral examination. At the oral examination, they must obtain at least 40 per cent on each subject, and finally, to obtain their license, they must obtain 60 per cent of the total examinations, oral and written united. Any candidate receiving less than 40 per cent on any one subject in the written or oral examinations may apply at the following examination to be examined on this one subject. A candidate who fails to obtain the necessary 40 per cent in two or more subjects must take all subjects of the examination over again. Any candidate who does not apply at the next examination following to take the subject in which he has failed, or who tries and fails again, will have to take the whole examination, either written or oral, as the case may be.

No certificate of examination will be accepted from any Pharmaceutical Association or College, unless it has been granted after a service of four years in a drug store and following a course of studies which, in the opinion of the Board of the Association, is equivalent to that required by the articles 4997-4998 of the Law of Pharmacy of the Province of Quebec.

Candidates who apply for the final examination, and who are not twenty-one years old, will be admitted to the examination, but if they

succeed their license will be retained until they have attained the age of twenty-one.

FEES FOR THE EXAMINATIONS

The fees to be paid by candidates, besides the registration fee, before they are admitted to the examination, are as follows:—Preliminary examination, $20.00, or $10.00 for each group; Assistant in Pharmacy, $15.00, and Pharmacist, $25.00. These fees must be paid in advance to the Registrar of the Association.

Any person having registered his name for an examination and not attending will lose the fee paid.

In addition to the above, a sum of $40.00 is required for the Diploma of Assistant Pharmacist, and $75.00 for the diploma of Licentiate in Pharmacy.

SCHOOL OF PHYSICAL EDUCATION

GENERAL INFORMATION

History and Aims.

The McGill School of Physical Education, which was established in 1912, has grown from a short summer course to a full two years' course and is now officially recognized by, and is an integral part of, McGill University.

It is the only School of Physical Education in Canada with a full two years' course connected with a University, and it has, since its inception, been fulfilling its purpose to provide Canada with a training centre for teachers of physical education, with marked success.

The modern conception of education is one which includes the individual as a unit and which strives to link all subjects in an organic whole. The physical education of to-day contributes to general complete education by means of motor activities which develop desirable standards of conduct, wholesome attitudes, sound habits of thinking, and efficiency of the human machine.

The Field.

The field for trained teachers in physical education is rapidly widening in scope, to include such organizations as the following:—Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc.

Qualifications.

Scholastic; Matriculation (see page 541).

It is highly desirable for any student anticipating entrance into his course to take either Chemistry, Physics or Biology in their preparatory work.

Motor Training: A native motor ability above the average, a rhythmic sense and previous training in motor activities is essential.

Personal: The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people and an ability to organize and control group activities.

Courses Offered.

A two-year course, from September to May, inclusive, is given in the theory and practice of physical education. This course is required for the Diploma of the School, and includes an analysis of the under-

lying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided before graduation.

Partial students may be admitted for the study of special subjects. Special arrangements will be made for admission to the course on Playground Problems.

Facilities.

The work is carried on in the University buildings, the laboratories and museums being at the disposal of the students.

The University Library is available for use by the students, as are the University Hockey Rinks, Tennis Courts and the Percival Molson Memorial Stadium.

A special library of selected works and the leading magazines on physical education is available for use by the students.

Through the kindness of the Protestant Board of School Commissioners, the Day Nursery, the Ladies' Benevolent Society, and the Hebrew Orphans' Home, exceptional facilities are afforded for practice teaching and observation.

The Montreal Health Clinics, under the Child Welfare Association, offer an opportunity for practice in a preventive posture programme.

Hostel.

A residence in charge of a resident tutor, at 3466 University Street, in the immediate vicinity of the campus, is conducted by the University and is available for students, provided application is made at an early date. Printed regulations will be supplied to intending students.

Room rent, $200.00 for the session; board in the Royal Victoria College (adjacent), $320.00 for the session (Inclusive charge, $520.00.) Charges for rent and board are paid in two instalments (October and February). Rooms are available from the day before the last day of registration (September 12th), until the day after Convocation, for students of the Second Year and until the Saturday before Convocation (May 24th), for students of the First Year. The board charges cover the same period. Most of the rooms are cubicles and *no room is assigned for a shorter period than the University session, September to May.* A deposit of $10.00 is required when a room is reserved and is deducted from the charges for the first term.

Students whose homes are not in Montreal are required to live in the Hostel unless they submit their plans for residence in writing to

the Director, and obtain his written approval. In cases where this privilege is granted, the accepted rules of residence must apply.

Costume for Women Students.

The regulation costumes of the School must be worn, and students will not be permitted to wear other than the regulation garments. Measurement blanks will be furnished upon registration and students will be advised where the costumes can be secured. A list of articles required, including clothes and books, with approximate cost, will be sent to students on application.

Student Organization.

All undergraduates are members of the McGill Women Students' Society (the official Undergraduate Society for Women).

An Undergraduate Association is also organized by the School of Physical Education, together with an Athletic Association which is a branch of the McGill Women Students' Society.

Girl Guides

The 1st Montreal Cadet Ranger Company under the auspices of the School is open to those who wish to have training as Girl Guide Leaders.

Alumnæ Association.

There is a very active association of the graduates of the School which meets regularly for mutual benefit. It is the endeavour of the School to keep closely in touch with its graduates, to locate them in positions for which they are best suited, to advise upon particular problems, and to furnish them from time to time with new ideals and inspiration for the profession in which they are engaged.

ENTRANCE REQUIREMENTS

1. Students are required to have passed the Matriculation Examination, as follows:—

1. **English** (two papers).
2. **History** (one paper).
3. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper)].
4. One of the following:—
   Physics, Chemistry, Botany, Zoology (one paper).
5. One of the following:—
   Latin, French, Greek, German, Spanish (two papers).

For requirements in each subject and other information regarding the examination, see page 77 to 79 and 83 to 89.

A candidate who has qualified for admission to the Faculty of Arts will also be accepted for the School of Physical Education.

Students holding the Degree of B.A. or B.Sc. will be eligible for advanced standing, provided the undergraduate work included such courses as Education, Psychology and Science. A complete statement of the courses covered, together with the practical experience of the student, must accompany all such applications.

Admission.

Only women students are admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable and applicants must have had some practical experience in physical work before registration. Registration for the Session 1930-31 is limited to fifty (50) students and priority will be given to applicants who do not have conditions.

A photograph and two references, one from a former teacher, must be submitted. Neither reference should be from a relative.

Partial students, both men and women, will be admitted to special courses at the discretion of the Committee, and the work done will count toward the Diploma of the School.

Health Examination.

In order to safeguard the health of the student, every candidate on entering the School will be required to pass a satisfactory health examination before proceeding with the course. In order to be sure of the applicant's fitness to undertake the course, students are required to submit a medical certificate before registration. (See application form.)

Vaccination.

All students entering the University for the first time are required to present a certificate of successful vaccination within the past seven years, or of insusceptibility to vaccine within the past five years, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities. This should be attended to previous to entrance so as not to cause unnnecessary absence from classes.

Health.

Provision is made by the University for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, and for this time, only when requisitioned for by the Department. The University will not be responsible for any accidents occurring during the course. A leaflet concerning this service and the general work of the Department will be distributed at the opening of the session.

Regulations.

1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession will be advised to discontinue.

2. A student may at the discretion of the Committee be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Except in the case of illness or emergency, students must not absent themselves without previous permission, and students persistently late or absent will not be allowed to sit for the examination.

4. A student who, through illness or accident, is absent for a large proportion of the work, will be advised to discontinue or to take the course in three years.

5. No student will be permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

FEES AND REGISTRATION

I. FEES

Sessional fee	$150.00
By instalments—	
First instalment, if paid before or on October 16th	77.00
Second instalment, if paid before or on February 1st	77.00

NOTE.—The deposit fee of $10.00 for Hostel accommodation made at the time of acceptance of application will be deducted from the charges for the first term.

Students are also required to pay a fee of $2.50 which entitles them to membership in the McGill Women Students' Society and subsidiary societies, and $1.50 for the McGill Daily.

In addition, there will be a fee of $6.00 for athletics and athletic grounds, for the skating rinks and tennis courts during the Session and for admission to the home games under the control of the Athletic Board.

Fees for Partial Students: $4.00 for library, $3.00 for athletics and athletic grounds and a fee at the rate of $9.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Partial students may, if they so desire, secure the privilege of the skating rinks and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $3.00.

Fees for Supplemental Examinations.

Supplemental examination in any subject (theory and practice)	$ 5.00
Special supplemental examination in any subject (theory and practice)	10.00

Caution Money. Every student is required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

II. REGISTRATION

Students (both former and entering) will register between September 10th and September 13th, and the opening lecture will be given on Monday, September 15th.

A fine of $5.00 for the first week and of $10.00 for the second week is exacted for late registration.

Application forms should be returned not later than September 10th, 1930.

EXAMINATIONS AND PRIZES

Diplomas.

Examinations will be conducted in all subjects and diplomas are granted to successful students at the end of the session. Strathcona Certificates issued through the Strathcona Trust are granted to students at the end of the First Year.

Fifty per cent is required for a pass, 60 per cent for second class, 75 per cent for first class.

The Educational Diploma is recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the salary of Specialist in the Public Schools.

Students failing in their sessional examination may, at the discretion of the Committee, take supplemental or special examinations.

All students of the Second Year are required to do a certain amount of practice teaching and athletic officiating. Credit is given for this work.

Prizes.

1. Senior Year Gold Medal.—The School offers a prize of a gold medal to the student of the graduating year who attains the highest general proficiency throughout the course.

2. Lieutenant-Governor's Silver Medal.—This medal is awarded to the student of the Senior Year who attains the second highest general proficiency throughout the course.

3. A Cup, presented by the Class of 1916, is held for one year by the student of the Senior Year gaining the highest standing in practical work.

4. A Shield, presented by the Class of 1925, is awarded to the student attaining highest standing in practice teaching throughout the course and is held for one year by the student.

5. Junior Year Prize.—The School offers a prize to the student of the Junior Year who attains the highest general proficiency in the sessional examinations.

6. Lieutenant-Governor's Bronze Medal.—This medal is awarded to the student of the Junior Year who attains the second highest general proficiency in the sessional examinations.

Note.—No student shall be entitled to more than one prize in any one year, and must have full standing in the year the prize is given.

COURSES OF INSTRUCTION

JUNIORS	Hours
English	1
Physics	1
Chemistry	1
General Anatomy and Physiology	3
Physical Diagnosis	½
Theory of Physical Education	1
Educational Psychology	1
History, Education and Physical Education	1
First Aid	½
Playground Problems	1
Gymnastics	4
Games and Athletics	3
Dancing	3
Aquatics	1
Teaching, Observation and Practice Teaching	1
	23

SENIORS	Hours
Physiology of Exercise	1
Individual Gymnastics and Massage	1½
Preventive Medicine	2
Kinesiology and Applied Anatomy	½
Principles of Education	1
Organization and Administration	1
Theory of Physical Education	1
Child Welfare	½
Gymnastics	4
Games and Athletics	2
Dancing	2
Aquatics	1
Practice Teaching	2
	19½

The hours as stated indicate hours per week for the session of thirty weeks.

THEORY

JUNIORS

English

This course is arranged primarily to supplement the students' knowledge and appreciation of English literature. The course will include brief discussions, from a comparative point of view, of the novelists, the essayists, and Canadian poets particularly.

It will be directly allied to Physical Education in that all answers, quotations, readings and discussions will be given orally.

Miss Slack. **1st and 2nd Terms, Fri. 12.**

Physics

This course is adapted to problems in physical education, so as to give the students an understanding of the practical application of physical laws and principles bearing upon their work.

Mechanics (force, work, power, energy, mechanical advantage); *properties of matter* (density, elasticity, cohesion, adhesion, capillarity, surface tension, osmosis, gas laws); *heat* (temperature, specific and latent heat, modes of transfer, effects, humidity); *light* (undulatory theory of electromagnetic waves, source within the atom, laws of reflection, refraction, images with mirrors and lens, photometry); *magnetism* (methods of magnetization, lines of force, poles, law of force, compass); *electricity* (properties of positive and negative charges, electroscope, friction machines, currents, cells, electrolysis, magnetic effects, induction dynamo motor, Ohm's law, therapeutic uses of electricity).

Professor Reilley, Dr. Douglas. 1st Term, Wed. 9, Fri. 11.

Chemistry

This course will include the fundamental principles requisite for a knowledge of general chemistry. Stress will be laid upon the chemical interpretation of (a) combustion and its relation to respiration, (b) water purification and sanitation, (c) disinfection, (d) pasteurization. Where possible, trips will be arranged for practical demonstrations of the above lectures.

A series of lectures will be given on the phenomenon of solution in its various phases of neutralization, hydrolysis, electrolysis and osmosis. Compounds met with in ordinary daily routine will be discussed and illustrated with experiments. In conclusion, there will be a brief introduction to organic chemistry of general interest.

Dr. Hatcher. 1st and 2nd Terms, 1 hour, Fri. 10.

General Anatomy and Physiology

The purpose of this course is to give the student a clear conception of the human body as a *living mechanism* in which the functions and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated. As far as possible, therefore, the anatomy and physiology of the various organs and systems are considered together.

After an introductory study of the structure of the body as a whole, the great vital phenomena which distinguish all living organisms are considered and a detailed analysis made of the way in which they are exemplified in man.

In this way the various processes which go to make up the life cycle are taken up; the processes of ingestion, digestion, absorption, assimilation, catabolism, respiration, excretion, irritability and conductivity, movement and reproduction—and the structure of the organs concerned in these functions studied.

Dr. Lamb. 1st and 2nd Terms, Mon., Wed., Fri. 9.

Physical Diagnosis

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax; description of deformities due to disease; examination by inspection palpation, percussion and auscultation; tests for sight, hearing, nasal obstruction; examination for dental defects.

Students will be taught the early recognition of contagious disease, the more common defects and when to seek expert advice. Practice in methods of examination will be carried on under supervision in the Senior Year.

The course will include a study of human measurements, with reference to signs, body proportions, state of development and function of the body; the effect of age, sex, occupation, race and environment on development; adaptability to various forms of exercise and occupation; demonstrations of the use of various anthropometric instruments.

The application of this material will be made to educational institutions, including such follow-up procedures as: the hygiene of instruction, conservation of sight classes, fresh air rooms, school clinics, etc.

Dr. Harvey, Miss Herriott. 2nd Term, Wed. 3.

Theory of Physical Education

This course includes a study of the contributions of psychology, biology and physiology to physical education, an analysis of the aims and objectives of physical education in relation to general education, standards for evaluating physical education activities and the underlying principles of curriculum construction. A section of the course will be devoted to the modern programme of health education. Readings, term papers and the construction of a curriculum will be required.

Miss Herriott. 1st and 2nd Terms, Mon. 9, Tues. 10.

Educational Psychology

A brief outline of general psychology, with special reference to the relation between mind and body and the most important principles

of educational psychology, including a study of original nature, the laws of learning, transfer of training, etc.

Dr. Best. 2nd Term, Mon. and Wed. 11.

History of Education and Physical Education

This course will trace the development of physical education through the different periods of world history. Attention will be given to the characteristics of the people and to the ideals and customs of time and place as determining factors in the development of general education and of physical education.

Miss Herriott. 2nd Term, Thurs. and Sat. 9.

First-Aid

The endeavour in this course is to give the student a thorough practical knowledge of the correct action to take in cases of emergency.

The treatment of burns, scalds, sprains, dislocations, fractures, shock, hemorrhage, poisoning, etc., also the various kinds and uses of bandages, splints, antiseptics, etc., are carefully considered.

Successful students qualify for the certificate of the St. John Ambulance Association.

Dr. Tees. 2nd Term, Fri. 11.

Playground Problems

This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various playground activities; individual, group and mass athletics, dancing, games, singing, pageants, festivals, story-telling, handicraft, as well as layout and equipment, will be specially considered.

Actual practical work and visits to grounds form part of the course.

Dr. Lamb, Mr. Bowie, Mrs. A. E. Coleman. 1st Term, Tues., Thurs. 10.

SENIORS

Physiology of Exercise

The object of the course is to study by lectures and practical demonstration the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The work in this course will supplement and apply the problems studied in physiology to the working power of the human machine.

Dr. Lamb. 2nd Term, Wed., Fri. 10.

Individual Gymnastics and Massage

General consideration of movements used for remedial treatment; actual practice in class work; observations in the hospital clinics.

A consideration of the theory and effects of massage taken in broad outline to give the students a knowledge of its general usage and benefits. Practice in technique of massage manipulation with application to minor disabilities.

Mrs. McKean, Dr. Harvey. **1st Term, Tues., Thurs., Sat. 9.**

Preventive Medicine

The study of Preventive Medicine is taken up under the following heads:—

(a) *Bacteriology and Serology.*

Lectures and demonstrations are given in the study of the more common pathogenic organisms and communicable diseases. Their relation to health is considered in air, water, food, clothing, skin, hair, mouth, etc. Precautions against and means of combating pathogenic organisms are studied in, e.g., sterilization, disinfection, pasteurization, vaccination, immunization and general prophylaxis.

(b) *Personal Hygiene.*

A consideration of the philosophy of health, the social responsibility of the individual, the principles of mental hygiene, and the laws of healthful living in relation to the individual and the environment.

(c) *Public and School Hygiene.*

Health organizations and the means for the maintenance of health; occupational diseases and the effect of various occupations on health, sanitation, light, heating, ventilation, water supply and drainage, schoolroom inspection, etc.

Dr. Starkey, Miss Herriott. **1st and 2nd Terms, Tues., Thurs. 11.**

Kinesiology and Applied Anatomy

This course will consist of a general review, by means of lectures and demonstrations, of the mechanics of movement of the human machine, also of the classification and analysis of exercise, joint-movements and the action of muscle groups in producing motion.

Dr. Harvey. **2nd Term, Mon. 11.**

Principles of Education

This course includes a study of the underlying principles of general education, including concomitant learnings, the project method, the doctrine of interest, coercion in learning, etc. Application will be made to the field of physical education.

Miss Herriott. **1st Term, Wed., Fri. 9.**

Organization and Administration

This course comprises a study of various problems in organization and administration, from arranging a simple schedule of competitive events to the organization and supervision of a Department of Physical Education.

Actual visits to study organizations of various types will be made under supervision.

Dr. Lamb. **1st Term, Wed., Fri. 10.**

Theory of Physical Education

A continuation of the course outlined for Juniors.

Child Welfare

A study of child life and the influences necessary to the normal development of the child, the treatment of dependent, neglected, delinquent and defective children; child-welfare legislation.

Professor Hughes. **1st Term, Thurs. 12.**

ACTIVITY COURSES

JUNIORS AND SENIORS

The practical courses are planned to enable the student to gain not only an adequate knowledge of the numerous activities in physical education, but also to attain a moderate degree of skill in each type and to be able to intelligently teach and direct motor activities.

The student is made thoroughly familiar with the broad underlying principles of practical work and is furnished with ideas and ideals, thereby facilitating the application to any conditions which may arise in the teacher's field of endeavour.

Gymnastic Floor Work

SECTION I. Swedish and Danish gymnastics, with apparatus work.

SECTION II. Rhythmical gymnastics, including the use of hand apparatus—Indian clubs and wands.

SECTION III. Informal activities, such as game skills, stunts, tumbling, pyramid building, and self-testing activities.

SECTION IV. This period is devoted to lectures and discussion of the material in the activity sections.

Miss Herriott, Miss Wain, Miss Harvey, Mr. Finlay, Mr. Van Wagner.

Games and Athletics

SECTION I. The teaching organization and compiling of games of low organization suitable to various ages of childhood.

SECTION II. This course offers training in the fundamentals of games of high organization, such as basketball, baseball, tennis, field and ice hockey, archery, etc. An opportunity will be offered to develop efficiency in coaching and officiating.

Miss Wain, Miss Harvey.

Track and Field Activities

Instruction in all track and field activities will be given in the fall season during the first six weeks of the session.

Miss Wain, Miss Harvey, Miss Slack, Mr. Van Wagner.

Dancing

SECTION I. Folk, National and Clog Dancing.

SECTION II. Character and Interpretative Dancing. Dances suitable for public and high school students, with necessary technique and original dance compositions by the students.

SECTION III. Natural Dancing. This material is a rhythmic expression of the native and fundamental activities, including child rhythms and plays, music interpretations and natural dances.

Miss Herriott, Miss Wain, Miss Harvey.

Aquatics

This course includes methods of individual and class instruction of back, crawl, side, breast and trudgeon strokes; diving, life saving; methods of release, rescue, resuscitation; water polo; aquatic meets, etc.

Practice Teaching

Junior Year

During the first half of the second term, opportunities are provided for observation of teaching.

During the second half of the second term, practice teaching under staff supervision is required at the Montreal Day Nursery, Hebrew Orphans' Home and Ladies' Benevolent Society.

Senior Year

From October to March practice teaching under staff supervision is required at the Montreal Day Nursery, Hebrew Orphans' Home and Ladies' Benevolent Society.

During March and April, the opportunity is provided for practice teaching in the public schools of the city.

In addition to the above, each senior student is provided with a class outside of the University for which she assumes the full responsibility.

Athletic leagues in the city of Montreal provide experience in officiating.

SCHOOL FOR SOCIAL WORKERS

(A Member of the Association of Schools of Professional Social Work)

FOREWORD AND HISTORY

The School for Social Workers was founded in 1918 to provide social education and to supply the demand from Canadian cities for social workers with a breadth of view and scientific training. It has developed gradually from a department fostered by the Joint Board of the Theological Colleges, the social agencies of Montreal, McGill University, the Graduates' Society and interested individuals into its present status of a School. It is separate from any other faculty or department but is a constituent part of the University. After three years of trial and experiment the School was able to offer a regular one-year course of lectures, covering the practical side of social work and the educational background necessary for a proper appreciation of modern social problems. From 1923 onwards the work of the School centred around a two-year course leading to a diploma.

Social work, or social service, is not a new development, and its professional aspect alone is comparatively recent. At the end of the nineteenth century the number of permanent salaried positions for well-qualified men and women increased so greatly that a professional aspect was imparted to the work which had formerly been left in the hands of the casual volunteer. At this time social workers began to look beyond the remedial measures which would readjust the family or individual to normal conditions of life, and to seek the causes of mal-adjustment in order to build up a programme of preventive service. To-day the number of social agencies with a preventive policy, which provide facilities for wholesome personal and social development by means of community, recreational and educational work, is steadily increasing.

Without schools or text-books to prepare them for the profession of social work, the workers had to acquire their training through a system of apprenticeship, as was followed by the early educational methods in the older professions of law and medicine. This haphazard way entailed a heavy cost in mistakes and inefficiency to the agency and their clients.

At the end of the nineteenth century, training courses of a few weeks were given by universities and interested organizations. From this simple nucleus has gradually emerged the modern school of social

work, with a curriculum covering several years, an organized system of field work, text-books and staffs of instructors who give all their time to teaching and supervising. Standards of social work have advanced along with standards of professional training, and now the social worker is required to have a scientific knowledge and a technique which requires skilled performance to be effective.

THE FIELD OF SERVICE

The demand for trained and educated persons in the field of social work is in advance of the supply. Social work is a profession for men as well as for women, and the School seeks the entrance of young men to meet the requests which come from the social agencies. Graduates of the School hold positions ranging from executive secretary to case worker or visitor in the social agencies, and their activities cover such different fields as family welfare, hospital social service, Y.W.C.A., nursery schools, child placing, juvenile delinquency, mental hygiene, boys' homes, and work with the handicapped and the tubercular. Additional fields in which social workers may follow their profession are child welfare, immigration, institutions for the care of children and adults, church social service, clubs, settlements, personnel departments, social research, Y.M.C.A. and rural community work.

EXTENSION LECTURES

The School and the Department of Extra-Mural Relations are ready at all times to co-operate with existing organizations by providing speakers on social-education topics. They also arrange series of popular lecture courses in the social field for churches, schools, social agency boards, social service committees and community organizations.

ADMISSION

Candidates for admission are required to make application on a form supplied by the School, at an early date.

Students intending to register must first call at the Office of the School for Social Workers.

Diploma Course (Two Years).—Two years of university work or the equivalent will be required for admission to this course. College graduates, graduate nurses and teachers should take the course successfully.

Age.—Persons under 20 and over 35 years of age will only be admitted under exceptional circumstances.

University Graduates.—The Department of Sociology exists within the Faculty of Arts to carry on a scientific study of human society. University graduates while taking the two-year course in social work may also qualify for an M.A. in Sociology.

Undergraduates in Arts.—Undergraduates in the McGill Faculty of Arts who intend to enter the School after graduation may specialize in the field of Sociology and allied Departments. This fundamental background for social work will enable them to complete the two-year course in one year. They may also acquire practical experience in the settlements and clubs in Montreal.

Limited Diploma Students.—Students who for special reasons are not able to follow the regular curriculum of the course, may, if those reasons appear satisfactory to the Director, be accorded the status of Limited Diploma Students. Such students may distribute their work over three or four years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular curriculum.

Partial Students.—All lectures in the School for Social Workers are open to Partial Students, at the discretion of the Director. A statement of standing for courses taken under examination can be obtained, but credit is not given towards a diploma.

University Credit.—Students holding degrees, diplomas or certificates from any recognized University will be given credit for equivalent courses. They must submit official records with their application.

Medical Examination.—Before the university opens, all new students must present a certificate of medical examination, and of vaccination within the past seven years, from their own physician, upon forms supplied by the School Secretary; or they may have the examination made by the University Medical Officer, free of charge, after the opening of the session.

FIELD WORK

Field work, the practical training of the student in the social agencies, is of primary importance in the education of a social worker. During the First Year of the course, observation trips, attendance at social work clinics and, from January to May, one day and a half per week in a family welfare agency, comprise the sessional field work. Following the May examinations, there is six weeks of intensive field work with a family welfare agency.

During the session of the Second Year, two days a week of field work are spent with hospital social service departments, children's agencies, social settlements and so forth. Following the final examinations, six weeks of intensive field work is spent in that branch of social work in which the student intends to specialize.

TIME REQUIRED

Students taking the Diploma Course cannot expect to do the work of the School satisfactorily unless they give their full time to it. The whole course covers a period of twenty and one-half months, which includes two scholastic years of eight months, three months of intensive field work and three months vacation between the First and Second Year.

LOAN FUND

A small loan fund is at the disposal of the School, from which assistance is given to students in particular need of financial assistance. Loans are repayable on easy terms.

Applications for assistance from this fund should be made as early as possible.

Prizes are offered for the highest standing in the work of the various courses.

SCHOLARSHIPS

Several scholarships have been donated to the School for the purpose of ensuring a high educational standard for social work. These scholarships, of the value of $300, covering the two-year course leading to a diploma, are awarded on a basis of ability, experience, education and financial need. The following are available:—The Montreal Women's Club Scholarship—preference given to candidates from the Province of Quebec; the Notre Dame de Grace Women's Club Scholarship—preference given to candidates from Notre Dame de Grace; the Montreal Rotary Club Scholarship; the Mrs. Sadie Sherwood Memorial Scholarship; and the McGill School for Social Workers Alumnæ Scholarship. Application should be in the form of a two or three-page letter, stating candidate's interests, experience and reasons for application. This should be accompanied by an official transcript of the university record, two letters of recommendation from university professors and one from an employer, high school principal, or other person capable of estimating the candidate's capabilities.

FACILITIES

Montreal as a Social Work Laboratory.- In Montreal, the student sees a large number of social agencies in operation, learns how experienced social workers help people to solve their difficulties, and participates in a variety of social work practices under expert guidance.

Library.—The School has developed a special library dealing with social problems and social work.

Undergraduate Society.—All students in the School may become members of the Undergraduate Society of the McGill School for Social Workers, and participate in its social and administrative activities.

Alumnæ Society.—The Alumnæ Society, founded in 1925, is an active organization which unites the graduates and maintains their contact with the School and its students.

Athletics.—Athletic exercises in the form of gymnasium and dancing classes, basketball, tennis, ice hockey, etc., are available. All students desiring to take part in any of these activities should register at the Department of Physical Education.

Board and Lodging.—Accommodation for a limited number of out-of-town students can be arranged for at the settlements. Residents are required to give one or two evenings a week to helping in the work of the settlement.

FEES

For Diploma Students.—The annual fee is $70.00; if paid in two instalments (in October and February), $72.00 (this includes the library fee).

Other fees payable by women students are as follows:—

Student Activities Fee	$6.00
McGill Women Students' Society	2.50
McGill Daily	1.50

For Limited Diploma Students.—The fee is $18 a course.

For Late Registration.—Those students who register after the period of university registration will be charged an additional fee of $5.00.

Students are also required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session. Books and other School expenses should not exceed $15.00.

Partial Students.—Partial students will be charged a fee at the rate of $7.00 for an hour a week of instruction during the academic year. Partial students taking three hours or more a week will be required to pay the Library Fee ($4.00), the Grounds Fee ($3.00), and deposit $5.00 with the Bursar as caution money.

Partial students may, if they so desire, secure the privileges of the skating rinks and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $7.00 for men and $3.00 for women.

Extension Course Students and Partial Students taking less than three hours a week of Instruction.—These students desiring to use the University Library will be required to deposit $5.00 with the Librarian to cover damage done to books. This amount, less deductions (if any), will be returned at the close of the session.

The day set apart for the payment of fees by students in the School for Social Workers is Thursday, October 16th, but they may also be paid before October 1st.

REQUIREMENTS FOR A DIPLOMA

First Year Courses:

Social Work Number:		Hours per week for the session
i.	Introduction to Social Work	3
i.	Introduction to the Study of Society (Sociology 1)	3
ii.	Introduction to Psychology (Psychology 1)	3
iv.	Public Health and Preventive Medicine	2
v.	Introduction to Economics (Economics 1)	3
vi.	Home Economics, first term	1
vii.	Field Work, 1½ days, per week, second term	

Second Year Courses:

First Term			Second Term		
vii.	The Family (Sociology 7)	3	x.	Social Case Work	3
ix.	Public Speaking	1	xiv.	Social Legislation	2
x.	Social Case Work	3	xiii.	Field Work, 2 days per week	
xi.	Child Welfare	3	xv.	Social Pathology (Sociology 4)	3
xii.	Group Work	2	xvi.	Social Welfare Administration	2
xiii.	Field Work.2 days per week		xvii.	Social Statistics	2

Alternative Courses:

The following courses may be substituted for ones already covered; or, if the student plans to do special work along one of these lines, the course may take the place of a Second Year subject.

Playground Problems	2	hrs.	per	week,	1st term.
The Community, a study of Rural and Urban Life (Sociology 2)	3	"	"	"	sess.
Social Institutions (Sociology 11)	3	"	"	"	"
Social Origins (Sociology 5)	3	"	"	"	"
Immigration (Sociology 3)	3	"	"	"	1st term.

A student may proceed to the Second Year with any one full course, or its equivalent, unpassed. A certificate of standing can be given on the satisfactory completion of one year's work.

The Diploma of the School is awarded to students who obtain not less than 50 per cent in any one written examination, and satisfactory reports from the social agencies in which their field work has been taken.

No student may graduate before completing the required periods of field work, 26 weeks in all.

DESCRIPTION OF COURSES

COURSES IN THE SCHOOL FOR SOCIAL WORKERS

I. Introduction to Social Work.

The aim of this course is to present a general view of the social work field. Through a discussion of the function of community agencies, the principles and methods of social case work will also be dealt with.

Three hours, First Year.....Miss Reid.

IV. Public Health and Preventive Medicine.

Department of Public Health and Preventive Medicine.

Public health in general; the value of health to the individual and the community; the cost of preventable disease; the public health aspect of the communicable diseases, including tuberculosis and the venereal diseases, methods of prevention and control; safeguarding of water, milk and food supplies; rural and urban hygiene; housing; maternal, infant, pre-school and urban hygiene; industrial and mental hygiene; personal hygiene.

A history of the phases of public health development and an outline of its relation to social work; an explanation of the relations of governments, health and social agencies; the social worker's use of the community's health resources.

Two hours, First Year.

VI. Home Economics.

Food in relation to health; the dietetic and economic values of foods; planning low cost meals; family budgets and their use.

One hour, First Year, first term.....Miss Philp.

IX. Public Speaking.

Parliamentary procedure; the relation between speaker and audience; analysis of prepared and impromptu public speeches. The course affords extensive opportunity for practice and discussion.

One hour, first term, Second Year.....Mr. J. A. Edmison.

X. Social Case Work.

This course presents, through the study of actual histories, the case method of dealing with social maladjustment. It enables the student to approach, analyze and interpret individual, family and group prob-

lems and to recognize the basis upon which to work out a solution. It discusses the function of the different types of social agencies in the working out of a social programme, and offers a practical basis for constructive and preventive social work.

Three hours, Second Year.....Miss Reid.

XI. Child Welfare (Sociology 10).

A discussion of the home, foster home, and institutional care of the dependent child; the care of the defective and delinquent child, and child born out of wedlock. Special attention will be given to case work problems.

Three hours, first term, Second Year.....To be appointed.

XII. Group Work.

A discussion of problems involved in the actual management of groups in Y.W.C.A.; Y.M.C.A.; settlements and community centres.

Two hours, first term, Second Year.....To be appointed.

XIV. Social Legislation.

The purpose of this course is to enable the student to know and to use effectively social legislation, as a community resource.

Two hours, Second Year, second term.....Miss Reid.

XVI. Social Welfare Administration.

Historical development; scope, and relations between public and private agencies; organization and structure of a social agency; officers and boards of management; executive and staff; volunteer service; personal efficiency; office management; social agency accounting; social agency financing, individual, collective; social work publicity; social work statistics; social work co-ordination; the field of Protestant and non-sectarian social work in Montreal.

Two hours, Second Year, second term.....Mr. Falk.

XVII. Social Statistics.

An elementary course in statistical methods as applied to social phenomena.

Two hours, second term, Second Year.....Dr. Hughes.

COURSES IN THE SCHOOL OF PHYSICAL EDUCATION

Playground Problems. This course will relate the psychological principles to the actual activities of child life and the types of activity

best suited for children of varying ages and development; theories of play, etc.

The various playground activities, individual, group and mass athletics, dancing, games, singing, pageants, festivals, story-telling, handicraft, as well as layout and equipment, will be specially considered.

Actual practical work and visits to grounds form part of the course.

Two hours, first term; Tues., Thurs., 9. Dr. Lamb, Mrs. A. Coleman.

COURSES IN THE FACULTY OF ARTS

II. Introduction to the Study of Society (Sociology 1).

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

Three hours, First Year.....Dr. Dawson.

III. Introduction to Psychology (Psychology 1).

Lectures and experiments.

Three hours, First Year.....Professor Tait and Mr. Smith.

V. Introduction to Economics (Economics 1).

A study of the economic system with special reference to the economic problems which social workers meet in their work.

Three hours, First Year.....Professor Hemmeon.

VIII. The Family (Sociology 7).

The study of the family as the fundamental institution, its early forms, attitudes, and natural history; sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life. Present-day disorganization and reorganization of family life.

Three hours, first term; Second Year.....Dr. Dawson.

XV. Social Pathology (Sociology 4).

The processes of social disorganization; the basic causes of poverty; unemployment, irregular work, industrial fatigue and the consequent demoralization of the individual and disorganization of the social group; social unrest and disorder; critical analysis of the attempts to control

and reorganize society in the light of pathological social conditions; modern methods of research in the study of social change as it is related to social pathology.

Three hours, second term; Second Year.....Dr. Hughes.

Text:—Parmelee, Poverty and Social Progress (Macmillan).

ALTERNATIVE COURSES WHICH MAY BE TAKEN IN THE DEPARTMENT OF SOCIOLOGY

The Community (Sociology 2).

A study of Greater Montreal in comparison with the small town and open country communities. Analysis of the basic forces that condition the social life and social institutions of the great community. The trend of urbanization and its effects on human behaviour. Cities as centres of dominance and culture. Student research under direction.

Three hours. (Given in 1931–2.).....Dr. Dawson.

Social Institutions (Sociology 10).

The institution as a unit of social structure and as a bearer of culture; the processes by which institutions arise, develop and die; the life-cycle of such institutions as the sects, the church, the school, the newspaper, etc.; crises and the re-organization of institutions.

Three hours. (Given in 1931–2.).....Dr. Hughes.

Social Origins (Sociology 5).

The culture and social organization of primitive or pre-literate peoples, including anthropological data on:—Marriage and kinship; property and the division of labour; magic, religion and science; taboos, customs and morals; myth, folklore and legend; art, ornament and decoration; war, slavery, punishment and the state; the mind of primitive man. The processes of invention and diffusion in the origin and development of culture.

Mon., Wed., Fri., at 9, first term. Third and Fourth Years.
Dr. Hughes.

Immigration (Sociology 3).

Canadian population, racial origins, racial differences and race relations. Social effects of migration and immigration. Selection and assimilation of immigrants. The optimum population for Canada.

Tu., Th., at 9, second term. Third and Fourth Years—Dr. Dawson.

SCHOOL FOR GRADUATE NURSES

FOUNDATION AND HISTORY

The School for Graduate Nurses was established in 1920 under the direction of Miss Flora Madeline Shaw to provide for the preparation of public health nurses for the community, and administrators and teachers for schools of nursing. The foundation of the School was made possible by the generosity of the Quebec Provincial Red Cross Society, which agreed to finance the undertaking for three years. Dr. Helen R. Y. Reid, a member of the Corporation of the University, was chiefly instrumental in securing the interest and co-operation of both the University and the Red Cross Society. In October, 1924, the University, satisfied that the School had demonstrated its value to the community and the nursing profession, assumed responsibility for its maintenance.

During the session 1924-25 a new course of study—Supervision in Schools of Nursing—was offered. This was arranged in order to meet the needs of nurses not qualified to enter the course in Administration, but wishing to prepare for positions as supervisors or assistants in schools of nursing.

In 1927 the School suffered a very great loss in the death of its Director, Miss Shaw.

In 1928 the graduates of the School established in memory of Miss Shaw, the Flora Madeline Shaw Memorial Fund for the Advancement of Nursing Education. The Fund received the active and generous support of the graduates of the School, and also of individual nurses, of private citizens and of the Quebec Provincial Association of Graduate Nurses. In 1930 it was decided that the Memorial should take the form of the Flora Madeline Shaw Scholarship. The first scholarship of $500 will be offered in 1930-31 to Registered Nurses wishing to take a Graduate course at the School.

In 1929 the curriculum was reorganized in content and methods of instruction, to meet the growing professional needs of the students and in accordance with the University educational standards. Diploma courses covering a period of two academic years were offered in each of the major fields of nursing education. Courses of study were expanded and preparation for higher executive and teaching positions as supervisors, organizers and administrators in public health and welfare organizations was provided for by the establishment of a new major course in "Supervision and Organization in Public Health Nursing." A programme of health education was established in one of the affiliated undergraduate schools of nursing under the direction of a specially qualified health educator on the staff of the McGill School

for Graduate Nurses. Instruction in this important phase of nursing was arranged for all field workers, teachers, supervisors and administrators who would later be engaged in the education of nurses and the public in either institutions and schools of nursing or in the community at large. Increased emphasis was placed and provision made for the preparation of administrators, supervisors, clinical and classroom teachers, through directed observation, participation and responsible practice under supervision in the affiliated hospitals.

Research in Nursing:—An important development was the establishment of a fellowship providing for an intensive study of nursing in a selected ward in one of the affiliated hospital schools with a view to developing the clinical content of nursing and the best methods of clinical teaching in order to insure that the rich clinical experience of the student would be conducted on a sound educational basis. The study was developed under the direction of the School for Graduate Nurses and thus provided a model field for the study of nursing and the demonstration of clinical teaching.

Several additional members were added to the teaching staff of the School in order to develop the above programme.

The School continues to serve a national purpose. Students are enrolled from every province in the Dominion and Canadian nurses in the United States are returning to study at McGill. The enrolment shows a steady increase in numbers. One hundred and ninety-two students have graduated from the School and the majority of them are filling positions of leadership as directors, teachers or supervisors in schools of nursing, or in public health nursing in the community.

Each year, in addition to the students taking full-time courses leading to a diploma or a certificate, increasing numbers of partial students have been registered. The School has thus served as a teaching centre where nurses on the staff of the local hospitals, the Victorian Order of Nurses, the Metropolitan Life Insurance Company and the Child Welfare Association have profited by the opportunities offered in the School, and in this way have been able to continue their professional education.

COMMUNITY AND PROFESSIONAL NEEDS IN NURSING

Need for Graduate Schools of Nursing:—The educational function of undergraduate schools of nursing is to give the basic course in nursing which will insure a sound foundation in the highest professional ideals, knowledge, and skill essential for general practice, and for further study in any of the various fields of nursing in which their graduates may desire to engage. Undergraduate schools prepare the general practitioner in the art of nursing, but do not prepare specialists.

They teach the art of nursing, but not that of teaching, supervision or administration, each of which, like nursing, is based on underlying sciences and has its own principles and technique. These must be studied in graduate schools of nursing.

It is also felt that at present the undergraduate school does not give its students that sound knowledge of the principles of health and prevention of disease which is a necessary foundation for all public health work.

The functions of graduate schools of nursing, such as the McGill University School, is to prepare specialists in nursing, and qualified teachers, supervisors and administrators for schools of nursing and the fields of public health; to act as teaching centres for the continued education of those in active service in the community; to engage in research to advance the art of nursing, the professional content and methods of instruction, and to study and endeavour in every way to meet the national, community and professional needs.

Need for Qualified Superintendents, Directors and Leaders:—At all times, but particularly when a profession is passing through a critical, transitional period in its development, and when the conditions under which the professional group practices are rapidly changing, those who are shaping and directing the policies governing the education and practice of this group undoubtedly require a sound, broad education, both general and professional. In the nursing profession this need is becoming more and more acutely felt, and those with special graduate preparation are being increasingly sought for all teaching and executive positions.

The position of our superintendents is a very demanding one and much is expected of them. They are charged not only with the professional administration of the hospital nursing service, but with the educational administration of the school. This dual responsibility brings problems and corresponding opportunities which challenge our best informed and most able women. To adequately conduct the hospital nursing service, professional knowledge and skill, executive ability and other personal qualifications of a high order, together with experience and special training in administrative work, are required. To conduct the school in accordance with educational standards, it is becoming increasingly apparent that one needs, in addition, a sound general education, a knowledge of modern educational ideals and methods in the fields of general and professional education, a knowledge of present problems and trends in nursing education and practice, an understanding of changing social conditions and community health needs, and an understanding of the various fields of nursing in which the students will later be engaged and for which they should receive their basic preparation in the undergraduate school.

Need for Qualified Teachers and Supervisors:—There are two main divisions of the nursing curriculum, first those subjects, including the basic sciences, which are taught chiefly in formal classrooms; second, the principles and practice of nursing in its special branches, or services, which are learned chiefly through clinical instruction and experience in the hospital wards and clinics and in community health associations.

There is a steadily increasing demand for qualified classroom teachers which far exceeds the supply. With the growing appreciation of the importance of properly directed supervised experience in education, more attention is also being paid to clinical teaching, to planning and supervising this clinical experience, and the need of properly qualified clinical teachers (head nurses and supervisors) is being more and more emphasized.

Both types of teachers require not only a sound knowledge of the subject matter of the courses which they teach, but must also be trained in the art of teaching based upon the best modern educational philosophy, psychology, and principles and methods of teaching in general and higher education. The function of clinical teachers is, like that of the superintendent, a dual one, carrying with it both executive and teaching responsibilities differing chiefly in range of content, guidance and direction. Supervisors are often assistant superintendents and *vice versa.* For this reason the position of supervisor is a logical and necessary preparation for that of superintendent and director of a school. In the larger schools there is also a need for a "Supervisor of Instruction" who will assist the director in developing, co-ordinating and supervising the whole educational programme.

The number of teachers and supervisors or assistants required is naturally much greater than the number of superintendents and directors. Because of the intimate, first-hand contact and influence with students and patients, or because of interest and opportunity to study the subjects taught, or because of pleasure in the art of teaching itself, many women find in teaching their greatest satisfaction and an outlet for their highest capacities. The need in this field is constant and steadily growing and for some time to come the demand is likely to exceed the supply.

Need for Public Health Field Workers, Supervisors and Administrators:—Since the early years of this century a change has become apparent in the nature and scope of Visiting Nurse and District Nurse Associations. Gradually they have developed a much broader outlook, including in their programmes more and more educational work, teaching the prevention of disease and the upbuilding of positive health. It is to this larger conception of service that the term "Public Health Nursing" applies. To-day the Public Health Nurse is a well-known figure and a valued field agent in all branches of Hygiene and Preventive Medicine.

A great deal of pioneer work had to be done to discover what principles and practice are most suitable, and to arrive at a satisfactory method of administering Public Health Nursing Services. Now, much of this work is well beyond the experimental stage and has been proved sound and essential to public welfare. Municipal and Provincial Departments of Health are assuming more and more fully the responsibility for carrying on these tested services within their areas. The organization of rural health units enlarges tremendously the scope of official health work.

Pioneering, however, is not all of the past. New discoveries open up new vistas, and untold possibilities await the further application of knowledge already available. In a general way, the task of trying the new, the task of field research, falls to the unofficial voluntary agencies. Important contributions have been made by the Victorian Order of Nurses, a dominion-wide Public Health Nursing organization, by the Canadian Red Cross and by the local agencies which have been established in all the larger centres at least. In Canada, where the country itself is still being opened up, rapid expansion and development are particularly marked.

Our chief need at this time is for more nurses who are prepared to carry on and develop this work, and when necessary to organize it in new centres.

We need nurses with the best possible educational and professional background. Undergraduate nursing education alone does not, and probably should never be expected to give the special knowledge and skill required for Public Health Nursing. It is to give a basic preparation, to develop specialists in the main branches of Public Health Nursing, and to prepare nurses for positions of supervision and administration in an adequate way that graduate courses have been developed in University Schools for Graduate Nurses.

AIMS OF THE SCHOOL

The courses offered in the School for Graduate Nurses are designed to prepare qualified nurses to act as instructors, supervisors, assistants, or superintendents and directors in schools of nursing and hospitals and in public health nursing. The hope and aim of the School is to send out teachers and leaders, who, whether by helping to improve the methods and raise the standards of nursing education in schools of nursing in Canada, or by improving the methods and raising the standards of preventive and remedial nursing and health education in the community, may alike serve as public health workers.

EDUCATIONAL OPPORTUNITIES OFFERED BY THE SCHOOL

The McGill University School for Graduate Nurses offers unusual opportunities for the preparation of graduate nurses for positions of leadership in either schools of nursing or in health and welfare organizations in the community. Through the Faculty of Arts, the School of Medicine, including the Department of Public Health and Preventive Medicine, the Mental Hygiene Institute, the Nursery School, the School for Social Workers, the School of Physical Education, Macdonald College and other departments, courses are available in all the academic subjects, in the basic biological, physical and social sciences, and in professional courses for the education of teachers. The School for Graduate Nurses provides advanced professional courses in nursing education specially adapted to prepare teachers, supervisors and administrators for schools of nursing and the fields of public health and welfare in the community.

The libraries of the University, the School of Medicine, the School for Social Workers and other schools, together with the professional library of the School for Graduate Nurses, afford every facility for reading, study and research.

The excellent teaching hospitals for both the School of Medicine and the School for Graduate Nurses—the Royal Victoria Hospital, the Montreal General Hospital, the Alexandra Hospital (communicable diseases), the Shriners' Hospital for Crippled Children (orthopædic children), the Children's Memorial Hospital, the Maternity Hospital of the Royal Victoria Hospital with its numerous clinics—and other hospitals in and about Montreal offer every facility for the study of the most modern and efficient nursing in all its branches and for observation and practice in teaching, in supervision, and in administration of hospitals and schools of nursing. The public health and welfare associations and clinics, both public and private—the Victorian Order of Nurses (an educational centre of this national organization), the Child Welfare Association, the industrial clinics, maternity clinics, the Mental Hygiene Institute, the social service departments of hospitals, the Family Welfare Association and other social agencies, the municipal Health Department, the County Health Units, the Department of Hygiene in the School of Medicine—supply ample opportunities for study and field work—for visiting nursing, health teaching, supervision, organization and administration of public health and welfare work in the community.

COURSES, CERTIFICATES AND DIPLOMAS

The educational programme of the School is carried on in the Faculty of Arts, The Faculty of Medicine, including the Department of Public Health and Preventive Medicine, the School for Social Workers, the School of Physical Education, the Nursery School, hospital schools of nursing, public schools and other health and welfare organizations, public and private, in the community, and in the School for Graduate Nurses.

COURSES FOR DEGREES

The University does not, at present, grant a professional degree in the School for Graduate Nurses. The proposal to establish such a degree is, however, now under consideration. The curriculum of the School and methods of instruction are, nevertheless, strictly in accordance with the best university standards.

Conditions governing registration for degrees for students in the School are stated under Entrance Requirements, page 572.

Matriculated students may register as partial students in the Faculty of Arts and all regular Arts courses passed may, with the approval of the Dean, be credited toward the Bachelor of Arts or Bachelor of Science degree. Applicants already holding a Bachelor's degree may register as partial students for courses leading to a Master's degree.

COURSES FOR CERTIFICATES AND DIPLOMAS

The following courses representing five fields of major interest in nursing are offered by the School:—

I. Teaching in Schools of Nursing.
Diploma:—Instruction in Schools of Nursing.

II. Supervision in Hospitals and Schools of Nursing.
Diploma:—Supervisor in Hospitals and Schools of Nursing.

III. Administration in Hospitals and Schools of Nursing.
Diploma:—Superintendent of Nursing and Director of School of Nursing.

IV. Visiting Nursing and Health Teaching.
Diploma:—Visiting Nurse and Health Teacher.

V. Supervision and Organization in Public Health Nursing.
Diploma:—Supervisor in Public Health Nursing.

Length of Courses:—The courses of study which lead to one of the above graduate *diplomas* in nursing extend over two sessions of eight months each (exclusive of time spent in field work), and provide a thorough professional preparation for the field selected. The prescribed courses include approximately one session of general academic and professional courses in education, in McGill University or elsewhere in an approved college, and one session of professional nursing courses in the McGill School for Graduate Nurses.

The minimum period of residence for a certificate or diploma is one year.

A *certificate* in one of the above major fields may be granted upon the satisfactory completion of approved courses of study which extend over one session of eight months, exclusive of required field work.

Part-time students:—One or more courses may be taken on a part-time basis by graduate nurses actively engaged in service in schools of nursing, or in the field of public health nursing.

ENTRANCE REQUIREMENTS

(1) PROFESSIONAL REQUIREMENTS

1. All applicants must present evidence of the satisfactory completion of the basic professional course in nursing covering a period of at least two years in a school of nursing of approved standards, and connected with a hospital insuring adequate teaching and clinical experience. Applicants must also be registered when coming from a state or province where registration is in force and must be eligible for membership in the state, provincial and national nursing organizations.

2. Applicants for the courses in supervision in either schools of nursing or in public health organizations must present satisfactory evidence of ability to profit by these courses indicated by previous experience and demonstrated fitness for higher responsible executive and teaching positions.

3. Applicants for the courses in administration in either schools of nursing or in public health organizations must present evidence of having held satisfactorily, for at least two years subsequent to graduation, a position which has unmistakably demonstrated fitness for leadership and higher responsible executive work.

(2) ACADEMIC REQUIREMENTS

(a) Students Who Have Qualified for Matriculation in Arts

Students who have qualified for entrance to Arts may be admitted to the School as candidates for a certificate or a graduate diploma in nursing and may register as partial students in the Faculty of Arts, the courses taken, with the approval of the Dean, being later credited, if desired, toward a Bachelor of Arts or Bachelor of Science degree.

Regulations governing Junior and Senior Matriculation are stated on pages 77 to 94.

Students who already hold a baccalaureate degree from an approved institution may be admitted to the School as candidates for a certificate or a graduate diploma in nursing and may register as partial students in the Faculty of Graduate Studies and Research, the courses taken, with the approval of the Dean, being later credited, if desired, toward a Master's degree.

(b) Students Who Have Not Qualified for Matriculation in Arts

The McGill School for Graduate Nurses exists because of the recognized need tc provide a sound preparation for leaders, directors,

and teachers for schools of nursing and community public health organizations and to assist those already in service. There are many women of ability, fine character and personal qualifications who do not meet the usual university standards of admission, but who have already given valuable service and demonstrated their fitness for executive and teaching positions. They would be greatly assisted and undoubtedly would make much greater contributions if allowed to avail themselves of the enriched knowledge and experience which is so abundantly offered in a great University.

Such mature students of experience or demonstrated fitness, who cannot meet the matriculation requirements, may be admitted as partial students, and as candidates for a certificate or a graduate diploma in nursing in one of the major courses offered.

The minimum admission requirement for such students is the satisfactory completion of three years of high school work or its equivalent.

(c) Part-Time Students

It is highly desirable that all graduate nurses should continue their education while in active service. This may be done in the McGill School for Graduate Nurses.

(3) PHYSICAL REQUIREMENTS

As the work demands continued and concentrated effort, students must be in good physical condition. With their applications, all new students must present a certificate of medical examination, and of successful vaccination within seven years, from their own physician, upon forms supplied by the School. This is in accordance with the present Provincial Regulations, which are strictly enforced.

APPLICATION FOR ADMISSION

Candidates for admission to the School must make application on the prescribed form, if possible during the spring and early summer. For application blanks and further information, write to the Director, School for Graduate Nurses, McGill University.

ADMISSION TO ADVANCED STANDING

A student of another university applying for exemption from any subject or subjects which she has already studied is required to submit with her application a Calendar of the University in which she had previously studied, together with a complete statement of the course she has followed and a certificate of the standing gained therein.

SCHOLARSHIPS, MEDALS, PRIZES AND EXAMINATIONS

SCHOLARSHIPS

1. **Association of Registered Nurses of the Province of Quebec.**

   A scholarship of $250.00 to a graduate of an approved school of nursing in the Province of Quebec for any course elected in the School for Graduate Nurses, McGill University.

2. **Children's Memorial Hospital School of Nursing.**

   A scholarship to one of its graduates in the form of maintenance at the Hospital during one year's study at the School for Graduate Nurses, McGill University.

3. **The Flora Madeline Shaw Memorial Fund.**

   A scholarship of $500.00 is offered, the first to be awarded in memory of Miss Flora Madeline Shaw, to Registered Nurses wishing to take a Post-Graduate Course at the School for Graduate Nurses, McGill University, Montreal. Graduates from this School wishing to take advantage of a second year at the School, will be considered eligible, also Registered Nurses who have passed the matriculation examination.

4. **Harry J. Crowe Scholarship.**

   The establishment of the Harry J. Crowe Scholarship is of great importance to nursing education. For ten years (and longer if the fund will permit), a $600.00 scholarship is to be awarded to the largest hospital in each province and in Newfoundland, and an additional one to the Halifax Victoria General Hospital, for graduate study in nursing education or in dietetics in a Canadian University.

5. **Montreal General Hospital School of Nursing.**

   The Mildred Hope Forbes Memorial Scholarship. A scholarship established by Mrs. Norman Wilson in memory of the late Mildred Hope Forbes, a graduate of the Montreal General Hospital Training School for Nurses.

   The value of this scholarship is sufficient to enable *four* graduate nurses each year to take one year's work in the School for Graduate Nurses, McGill University.

6. **Royal Victoria Hospital School of Nursing.**

   1. A yearly scholarship given by the Board of Management, Royal Victoria Hospital, for graduate work in nursing in McGill University.

2. Dr. Garrow Scholarship, created mainly by the nurses of the Royal Victoria Hospital, given each year for graduate work at McGill University.
3. Harry J. Crowe Scholarship of $600.00 to a graduate of the Royal Victoria Hospital for a course in nursing or dietetics in a Canadian University.

7. Shriners' Hospital for Crippled Children.

A scholarship in the form of maintenance at the Shriners' Hospital for Crippled Children, Montreal, during one year's study at the School for Graduate Nurses, McGill University.

8. Victorian Order of Nurses for Canada.

The Victorian Order of Nurses for Canada offers a limited number of scholarships of $400.00 each, to graduate nurses who wish to avail themselves of a post-graduate course in Public Health Nursing at any of the following Universities: Toronto, British Columbia, Western Ontario, McGill. Upon successful completion of her course, a nurse accepting one of these scholarships is expected to return to the service of the Victorian Order of Nurses for one year.

MEDALS AND PRIZES

The Lieutenant-Governor of the Province of Quebec offers annually for competition a silver medal to be awarded to the student obtaining the highest standing in the course of Teaching in Schools of Nursing and a bronze medal to the student obtaining the highest standing in the course in Public Health Nursing.

Dr. Helen R. Y. Reid offers a prize of books, to be awarded to the student obtaining the highest standing in the course of Administration in Schools of Nursing.

EXAMINATIONS

Certificates or diplomas are awarded to students who obtain an average mark of fifty per cent in all examinations.

Results of examinations are published according to class, as follows: Class I, 75% to 100%; Class II, 60% to 74%; Class III, 50% to 59%.

In the case of students who do field work, satisfactory reports must also be received from the agencies with which their field work has been taken.

Examinations are held in some subjects at the end of the first term and final examinations are held in May.

FEES AND DEPOSITS

The fee for any certificate course is $100.00 a year (including the use of the Library), to be paid on or before October 10th, or payable in two instalments of $51.00 each, the first to be paid by October 10th and the second by February 1st.

Regular students pay in addition $6.00 for the use of the skating rinks and tennis courts and for admission to the home games under the control of the Athletic Board; $2.50 for the McGill Women Students' Society and $1.50 for the McGill Daily, as well as special fees for laboratory courses.

Students are also required to deposit with the Bursar, the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

For Late Registration:—Those students who register after the period of university registration will be charged an additional fee of $5.00.

Partial Students:—Fee at the rate of $7.00 for an hour of instruction a week during the academic year; library fee of $4.00; $3.00 for athletics; special fee for courses which include laboratory work. Partial students may become members of the Women's Society on payment of the regular fee of $2.50. They may also secure the privileges of the skating rinks and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional fee of three dollars.

EXPENSES

1. *Board and Residence:*—Information about boarding and lodging houses may be had on arrival at the School. Every assistance is given to students in locating suitable rooms, but it is necessary for the student to make the final arrangements in person.

2. *Approximate Estimate of Cost of Course:*—Students who register in those courses requiring field work will take this extra time into consideration in estimating their expenses. A statement of average expenses for the academic year (30-32 weeks), is as follows:

University fees	$110.00
Books	20.00 to $ 40.00
Room (30-32 weeks)	175.00 " 225.00
Board	225.00 " 300.00
Incidentals	30.00 " 40.00
Average total	560.00 " 700.00

COURSES OFFERED BY THE SCHOOL FOR GRADUATE NURSES

An understanding of the professional courses in nursing education, whether it be in the art of teaching, supervision, or administration in schools of nursing or in public health work in the community, requires the preliminary study of basic subjects, principles and methods in the fields of general and professional education upon which such arts are based, in order to adapt them to the special needs and fields in nursing. Teachers (classroom, clinical or community health teachers) require advanced knowledge of the subjects which they are to teach in addition to knowledge and skill in the art of teaching. Administrators, like principals of other schools, or organizations, require that broad preparation and experience in teaching, supervision and administration which will enable them to establish a sound professional course or service in nursing, to guide and direct their teachers and supervisors in carrying out the school or community health programme, to guide and counsel students, and to act as leaders in nursing in schools and communities.

1. TEACHING IN SCHOOLS OF NURSING

Diploma—"Instructor in Schools of Nursing."
Advisers: Miss Bertha Harmer and Miss Marion Lindeburgh.

This course of study is planned to prepare qualified nurses for positions as instructors in schools of nursing.

Certificate Course (one year):—A certificate may be granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be required to include one or more of the Suggested Electives.

Diploma Course (two years):—The diploma may be granted for the satisfactory completion of the Required Courses listed under First and Second Years, together with one or more Suggested Electives.

FIRST YEAR (*Certificate*)	SECOND YEAR (*Diploma*)
(a) General Academic	
Required:—	*Required:*—
9. Psychology.	19. Sociology.

Suggested Electives:—1. Political Economy; 2. Political Economy; 3. English; 3a. English; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

(b) Professional Courses in Education

Required:—	*Required:*—
25 (a) and (b). General Principles of Education.	24. Educational Psychology. 26. Method and School Organization.

Suggested Electives:—51. Philosophy; 52. Philosophy; 53. Philosophy.

(c) Nursing Education—General

Required:—	*Required:*—
30. Health and Nursing Legislation. 37 (a). Preventive Medicine and Hygiene *or* 38 (a). Public Health Nursing. 47. History of Nursing.	34. Mental Hygiene. 37 (a). Preventive Medicine and Hygiene *or* 38 (a). Public Health Nursing.

Suggested Electives:—37 (b). Preventive Medicine and Hygiene; 38 (b). Public Health Nursing. Refresher Course: 41. Communicable Diseases; 42. Obstetrics; 43. Tuberculosis.

(d) Nursing Education—Teaching in Schools of Nursing

Required:—	*Required:*—
Content Courses: 14. Bacteriology *or* 15. Chemistry. 17. Physiology. 50 (a) and (b). Teaching in Nursing Schools.	Content Courses: 14. Bacteriology *or* 17. Physiology. 48. Materia Medica. 50. Teaching in Nursing Schools.

Suggested Electives:—15a. Biochemistry; 33. Health Education; 45. Supervision in Nursing Schools.

2. SUPERVISION IN HOSPITALS AND SCHOOLS OF NURSING

Diploma—"Supervisor in Hospitals and Schools of Nursing."
Adviser: Miss Bertha Harmer.

The following course of study is planned to prepare qualified nurses for positions as clinical instructors, supervisors, and assistant superintendents, in schools of nursing. Previous experience as a headnurse or an equivalent satisfactory executive or teaching experience is desirable in order to profit fully by the course.

Certificate Course (one year) :—A certificate may be granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be required to include one or more of the Suggested Electives.

Diploma Course (two years) :—The diploma may be granted for the satisfactory completion of the required courses listed under First and Second Years, together with one or more Suggested Electives.

FIRST YEAR (*Certificate*)	SECOND YEAR (*Diploma*)

(a) General Academic

Required:—	*Required:*—
9. Psychology.	21. Sociology *or*
19. Sociology.	22. Sociology.

Suggested Electives:—1. Political Economy; 2. Political Economy; 3. English; 3a. English; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

(b) Professional Courses in Education

Required:—	*Required:*—
25 (a). General Principles of Education.	24. Psychology.
	26. Method and School Organization.

Suggested Electives:—25 (b). General Principles of Education; 51. Philosophy; 52. Philosophy; 53. Philosophy.

(c) Nursing Education—General

Required:—	*Required:*—
34. Mental Hygiene.	30. Health and Nursing Legislation.
37 (a). Preventive Medicine and Hygiene *or*	33. Health Education.
38 (a). Public Health Nursing.	37 (a). Preventive Medicine and Hygiene *or*
	38 (a). Public Health Nursing.
	47. History of Nursing.

Suggested Electives:—32. Child Hygiene; 34. Mental Hygiene; 35. Nutrition; 37 (b). Preventive Medicine and Hygiene; 38 (b). Public Health Nursing.

(d) Nursing Education—Supervision in Nursing Schools

Required:—	*Required:*—
45. Supervision in Nursing Schools.	Basic Sciences:
50 (a) (b) and (c). Teaching in Nursing Schools.	14. Bacteriology *or*
Basic Sciences:	17. Physiology.
14. Bacteriology *or*	48. Materia Medica.
17. Physiology.	Specialized Supervision:
15. Chemistry.	(One of the following)
	Communicable Diseases.
	Medicine.
	Mental Hygiene.
	Obstetrics .
	Out-Patient Department.
	Operating Room.
	Pediatrics.
	Surgery.

N.B. *Specialized Supervision:*—Refresher content courses and six weeks intensive experience in one of the above departments together with related courses selected from suggested electives.

3. ADMINISTRATION IN HOSPITALS AND SCHOOLS OF NURSING

Diploma—"Superintendent of Nursing and Director of School of Nursing."
Adviser: Miss Bertha Harmer.

Adviser: Miss Bertha Harmer.

The following course of study is planned to prepare women of superior qualifications and experience for positions as superintendents and directors in schools of nursing. Satisfactory experience of at least two years in administrative and educational work in schools of nursing is required as a prerequisite to this course.

Certificate Course, (one year):—A certificate may be granted for the satisfactory completion of the Required Courses listed below under the First Year. Students may be required to include one or more of the Suggested Electives, and are required to complete field work of from three to six weeks depending upon the student's previous training and experience.

Diploma Course:—The complete course outlined below, leading to a diploma, covers a period of two academic years, together with the required field work, unless preceded by a year's study in either Course I or Course II outlined above.

FIRST YEAR (*Certificate*)	SECOND YEAR (*Diploma*)

(a) General Academic

Required:—	*Required:*—
9. Psychology.	3 (a). English.
19. Sociology.	5. History.
	21. Sociology *or*
	22. Sociology.

Suggested Electives:—1. Political Economy; 2. Political Economy; 3. English; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

(b) Professional Courses in Education

Required:—	*Required:*—
28 (a) and (b). General Principles of Education.	24. Psychology.
	29. Method and School Organization.

Suggested Electives:—51. Philosophy; 52. Philosophy; 53. Philosophy.

(c) Nursing Education—General

Required:—	*Required:*—
30. Health and Nursing Legislation.	33. Health Education.
34. Mental Hygiene.	37 (a). Preventive Medicine and Hygiene *or*
37 (a). Preventive Medicine and Hygiene *or*	38 (a). Public Health Nursing.
38 (a). Public Health Nursing.	Any two of the following:
47. History of Nursing.	14. Bacteriology.
50 (a). Teaching in Nursing Schools.	15. Chemistry.
	17. Physiology.
	48. Materia Medica.

(d) Nursing Education—Administration

Required:—	*Required:*—
27. Administration in Nursing Schools.	45. Supervision in Nursing Schools.
29. Hospital Economics and Administration.	55. Special Problems in Administration.

4. VISITING NURSING AND HEALTH TEACHING

Diploma—"Visiting Nurse and Health Teacher."
Adviser: Miss Isabel Manson.

This course is designed to give to graduate nurses a basic preparation for Public Health Nursing in its generalized and specialized forms.

Certificate Course, (one year):—A certificate may be granted for the satisfactory completion of the required courses listed below under the First Year, together with the required field work. This is essentially a generalized course, but in cases where it seems advisable, emphasis may be placed on some selected branch of the work through the arrangement of the field experience, in order to prepare a nurse for a particular position. Students may be required to include one or more of the Suggested Electives.

Diploma Course (two years):—The complete course covers a period of two academic years together with required field work. The second year is devoted to specialization in a selected field of Public Health Nursing, such as Mental Hygiene, Child Welfare, Medical Social Service, School Nursing, etc. Courses to be chosen from those below, subject to individual arrangement.

The courses required for *all* students in the Second Year are indicated below. Additional courses and field experience required depend upon the field elected by the student for specialization.

FIRST YEAR (*Certificate*)	SECOND YEAR (*Diploma*)
(a) General Academic	
Required:—	*Required:*—
9. Psychology.	Dependent upon field of specialization.
19. Sociology.	

Suggested Electives:—1. Political Economy; 2. Political Economy; 3. English; 3a. English; 4. French; 5. History; 7. History; 10. Psychology; 11. Psychology; 13. Public Speaking.

(b) Professional Courses in Education	
Required:—	*Required:*—
25 (a). General Principles of Education.	Dependent upon field of specialization.

Suggested Electives:—24. Psychology; 25 (b). General Principles of Education; 26. Method and School Organization.

(c) Nursing Education—General

Required:—

30. Health and Nursing Legislation.
47. History of Nursing.

Suggested Electives: — Refresher Courses: — 41. Communicable Diseases; 42. Obstetrics; 43. Tuberculosis.

(d) Nursing Education—Public Health Nursing

Required:—

31. Bacteriology.
32. Child Hygiene.
33. Health Education.
34. Mental Hygiene.
35. Nutrition.
37 (a) and (b). Preventive Medicine and Hygiene.
38 (a) and (b). Public Health Nursing.
39. Social Case Work.

Required:—

Specialization in one of the fields of Public Health Nursing with appropriate field work and related courses selected from suggested electives.

Suggested Electives:—1B. Social and Industrial Legislation; 15. Chemistry; 17. Physiology; 34A. Mental Hygiene; 39A. Introduction to Social Work; 39B. Social Case Work; 40. Social Welfare Administration; 46. Supervision and Organization in Public Health Nursing.

PRACTICE WORK IN PUBLIC HEALTH NURSING

Ten weeks of practice in Public Health Nursing is arranged during September and in May and June following the examinations.

Students will not be expected to repeat experience gained under satisfactory conditions. Individual adjustment of field work will be made in each case.

Weekly conferences are held in connection with this work and written reports are required.

Practice work may be arranged with the following:

Child Welfare Association.
Family Welfare Association.
Industrial nurses.
Mental Hygiene Institute.
Montreal Department of Health, Division of Child Hygiene.
Outremont Public Health Department, School Nursing.
Social Service Departments of the Hospitals.
Victorian Order of Nurses.

Plans are being made to secure a practice field in rural work in one of the County Health Units near Montreal.

Students are reminded that it is only through the courtesy of the agencies that field work is available and are asked to comply wholeheartedly with both the letter and spirit of all regulations of the organizations.

When working with the Victorian Order of Nurses, the students are asked to wear a plain one or two-piece dress of washable material in gray or blue, with white collar and cuffs and a black Windsor tie. Plain dark hat and coat must also be provided.

5. SUPERVISION AND ORGANIZATION IN PUBLIC HEALTH NURSING

Diploma—"Supervisor in Public Health Nursing."
Adviser: Miss Isabel Manson.

This course is planned to prepare women of superior qualifications and experience for positions as directors, supervisors and teachers in Public Health Nursing.

The course is offered in the Second Year only. The First Year of Course 4, and at least one year of satisfactory experience, are prerequisite.

The diploma may be granted for the satisfactory completion of the required courses listed below together with two or more full courses from the Suggested Electives and the required field work.

(a) General Academic

Required:—

One of the following:	(*and*)	One of the following:
10. Sociology.		3A. English.
21. Sociology.		5. History.
22. Sociology.		7. History.

Suggested Electives:—2. Political Economy; 3. English; 4. French; 10. Psychology; 13. Public Speaking; 51. Philosophy; 52. Philosophy; 53. Philosophy.

(b) Professional Courses in Education

Required:—

24. Psychology.

Suggested Electives:—25. General Principles of Education; 26. Method and School Organization.

(c) Nursing Education—General

Required:—

30. Health and Nursing Legislation.

47. History of Nursing.

Suggested Electives:—1B. Social and Industrial Legislation; 15. Chemistry; 17. Physiology. Refresher Courses: 41. Communicable Diseases; 42. Obstetrics; 43. Tuberculosis.

(d) Nursing Education—Supervision in Public Health Nursing

Required:—

40. Social Welfare Administration.

44. Special Problems in Supervision.

46. Supervision and Organization in Public Health Nursing.

DESCRIPTION OF COURSES

COURSES IN THE SCHOOL FOR GRADUATE NURSES

13. Public Speaking.

Lectures in speech and voice training. Practice in oral delivery.
One hour, second term.....Mrs. Bragg.

27. Administration in Nursing Schools.

(a) *First Term*:—This course deals with the professional administration of the hospital department of nursing service,—its function, organization, control, cost of nursing service; the personnel—staff required, qualifications and selection, duties and responsibilities, staff education; ward equipment; administration and supervision of nursing care of patients; records and reports.

Second Term:—Deals with the educational administration of hospital and other types of schools of nursing—their function, organization, support, control and management; relationship to the hospital and department of nursing service; the personnel—number, qualifications, selection, duties and responsibilities in the school and department of nursing service; staff education, tenure and promotion; school buildings, classrooms, and equipment; educational programme, theory and practice; standardization and registration; school budgets.

(b) Weekly excursions to hospitals and public health organizations in the community; weekly conferences and discussions; reports of observations and special problems in administration.

(c) Intensive experience in administration in affiliated hospitals; three to six weeks, depending on student's previous experience and training.

Three hours.....Miss Harmer and assistant.

27A. Special Problems in Supervision.

Conferences, discussion and reports.
One hour.....Miss Harmer and special instructors.

29. Hospital Economics and Administration.

Lectures and Observations:—This course deals with the hospital and its relation to the community; the board of trustees, the medical board and the general staff; problems of planning, organizations, equipment and administration of the various departments; the purchase and handling of supplies and other problems of hospital administration from the point of view of the administrator.

Two hours, first term.....Dr. Haywood.

30. Health and Nursing Legislation.

The purpose of this course is to enable the student to know and to use effectively health and nursing legislation.

Two hours, second term.....Miss Upton and other lecturers.

31. Bacteriology in Public Health.

Classes and Laboratory Work:—The study of the more common pathogenic organisms, moulds and yeasts; use of microscope; preparation and use of culture media; bacteriology of milk and water; applications of bacteriology in public health and preventive medicine.

Department of Public Health and Preventive Medicine.

32. Child Hygiene.

The Health of the Infant and the Pre-school child.

Dr. Chandler and Miss Beith.

The Health of the School child and health education in the School. School.

Three hours, first term. Dr. Fleming and Miss Lindeburgh.

33. Health Education.

Principles of construction of a health teaching programme; gradation and suitability of subject matter; principles of teaching and methods of presentation; lesson plan construction. Demonstration and practice teaching.

One hour, second term.....Miss Lindeburgh and Miss Manson.

34. Mental Hygiene and Psychiatry. General Course.

Lectures, case conferences and demonstrations cover: principles underlying healthy mental development; prevention of mental maladjustment and mental diseases; maladjustments met with in everyday life, from the simplest to the most severe. Discussions also include history, methods and organization of parent study groups, family relationships, etc. Course is outlined especially to meet needs of the nurse in general and special fields. The Mental Hygiene Institute is available for practical work.

First Year. Two hours, second term.....Dr. Mitchell.

34A. Mental Hygiene and Psychiatry. Special Course.

Intensive practical and academic training in Mental Hygiene and Psychiatry for nurses who wish to specialize in this field.

Pre-requisite 34.....Dr. Mitchell.

35. Nutrition and Health.

The first part of this course is a study of the elements of nutrition and dietetics, the essentials of an adequate diet, and the nutritive properties of common food materials.

The second part of the course is devoted to the discussion of the practical application of these principles in the various fields covered by the Public Health Nurse.

Two hours, second term.....Miss Hayward and Miss Bell.

37. Preventive Medicine and Hygiene. (a) First term; (b) Second term.

A brief history of the development and present status of public health administration; the control and prevention of communicable diseases; maternal and infant hygiene; oral hygiene; discussion of sanitation, housing, water, food, and milk supply; industrial hygiene.

Three hours..Department of Public Health and Preventive Medicine.

38. Public Health Nursing.

(a) First term.

Characteristics and trends of modern Public Health Nursing; brief history of development; fundamental principles.

(b) Second term.

Organization in Public-Health Nursing; the special fields; records and statistics.

(c) Excursions for the observation of the health and social activities of the community. Conference and discussion.

(d) Practice period of ten weeks to gain experience in Public Health Nursing. Weekly conferences and written reports.

Three hours.....Miss Manson and special lecturers.

39. Social Case Work.

Principles, objective and method of case work, with special emphasis on actual case studies; adequate knowledge as a basis for judgment and action in effecting individual adjustments; how obtained and applied; relief—its place in case work; the relation of case work to the community; records; the use and purpose of records; record making; forms; correspondence, etc.

Two hours.....Miss May Reid.

41. Communicable Disease.

Control and care in scarlet fever, measles, diphtheria, smallpox, venereal diseases.

Ten lectures and clinics.....Dr. Cushing and Dr. Powell.

42. Obstetrics.

Pre-natal and natal work. Maternal and infant care.

Six lectures.....Dr. Goodall.

43. Tuberculosis—Prevention, Control and Treatment.

Ten lectures, second term.....Dr. Byers.

44. Special Problems in Supervision.

This course is for discussion of the problems arising in supervision of public health nursing. Each student will make a special study of one of these problems and present the result of the study in a written report.

One hour.....Miss Manson and special lecturers.

45. Supervision in Nursing Schools.

(a) The organization and administration of hospital and school; the dual executive and teaching functions of the supervisor; relationship to the headnurses and their dual functions; principles and methods of supervision; application to the management and supervision of wards and departments, and the care of patients; staff conferences; organization and sequence of the clinical content of the curriculum; the correlation of theory and practice, and methods of clinical teaching.

Forms, records and reports. Observation supervision.

(b) Six weeks' intensive experience in the supervision of one of the major services or departments in affiliated hospitals or out-patient departments.

Two hours, second term....Miss Harmer and clinical supervisors.

46. Supervision and Organization in Public Health Nursing.

(a) This course deals with the principles and practice of supervision in Public Health Nursing with special reference to staff education and student field work. Discussion of problems of organization and administration; personnel management; financial support, publicity, etc.

(b) Observation of methods and content of supervision followed by conference and discussion.

(c) Field experience with Public Health Nursing agencies. Opportunities for practice teaching and supervision. Conferences for discussion of experience.

Three hours.....Miss Manson.

47. History of Nursing.

Lectures, readings and written reports.

One hour.....Dr. Abbott and Miss Manson.

48. Materia Medica.

Lectures and Demonstrations:—This course includes a discussion of drugs, their sources, crude forms, and preparation, with laboratory demonstrations; proper methods of administration, with physiological, therapeutic and toxic action.

(Not given in 1930-31.).....Dr. Scriver.

50. Teaching in Nursing Schools.

(a) The historical development of nursing curricula; brief survey of current critical studies and revisions of professional curricula; comparison of nursing curricula with other vocational and professional curricula; purpose and aims of schools of nursing; principles of curriculum construction and their application to the selection and organization of the content of nursing curricula, including theory and practice.

(b) Classification of subjects in the curriculum to be taught; the selection, preparation and qualifications of teachers; teaching schedules; educational opportunities and special problems in teaching; classrooms, library, study rooms, text and reference books and other teaching materials; the grouping, sequence, and arrangement of classes; the application of principles and modern methods of teaching to the various subjects to be taught in schools of nursing with special emphasis on the principles and practice of nursing.

(c) *First Term:*—Weekly observation of classes taught followed by conferences and discussions. Students will prepare reports of observations, teaching equipment, text and reference books.

Second Term:—Students will prepare lesson plans, participate in teaching, and finally be responsible for supervised practice teaching, followed by conferences, in subjects which they later expect to teach. Special emphasis will be placed on the principles and practice of nursing.

Three hours.....Miss Lindeburgh.

COURSES IN THE FACULTY OF ARTS

1. Elements of Political Economy (General Economics)—(Economics 1). Second Year. This course is primarily for Arts students.

Mon., Wed., Fri., at 11.

Professors Hemmeon and Culliton and Mr. Forsey.

1B. Social and Industrial Legislation. (Economics 15). Fourth Year and Graduate Students.

First term; in alternate years. (Given in 1931-32.)
Mon., Wed., Fri., at 12.....Professor Farthing.

2. Elements of Political Economy (Social Economics)—(Economics 2).

This course is open to Theological students proceeding to a degree in Arts, to students in the School for Social Workers, to partial students, and, by permission, to General students.

Mon., Wed., Fri., at 12.

Professors Leacock and Culliton and Mr. Forsey.

3. English Composition (English 1).

Sat., at 12.....Professor Noad, Miss Mackenzie and Assistants.

Professor Noad will have the general direction of this course. Section and weekly conference hours to be arranged.

3A. English Literature (English 2).

General Course from Anglo-Saxon times to the present day.
Tu., Th., and, at the pleasure of the instructor, Sat. at 12.

Professor Macmillan and Assistants.

Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.

4. French Language (French 1). First Year.

Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11.
Professors du Roure, Villard, Furness, d'Hauteserve and

Mme. Durand-Joly.

Texts:—(a) General Course.—Green and Ford, French Composition (Oxford), or Cameron, French Composition (Holt); Lavisse, **Histoire de France, Cours Moyen**; Jules Romains, Knock ou le Triomphe

de la médicine (The Century Co.); Maupassant, Contes Choisis; Les Trois Mousquetaires (Heath), Hugo, Gavroche (Oxford). (b) Advanced Course.—D. L. Buffum, French Short Stories (Holt); Racine, Andromaque (Ginn); Mérimée, Contes et Nouvelles (Oxford); Molière, Les Précieuses Ridicules (Heath); Moraud, French Composition (Oxford).

5. **General History of Europe, from the Break-up of the Roman Empire to 1914 (History 1).** First Year.

Tu., Th., Sat., at 11.....Professors Waugh and MacDermot.

6. **General History of North and South America (History 2).** Second Year.

Mon., Wed., Fri., at 9.....Professor Adair.

7. **History of Canada (History 4).** Third Year.

Tu., Th., Sat., at 9.....Professor Fryer.

With the consent of the Department, this course may be taken by Fourth-Year students.

8. **History of Europe, 1789-1914 (History 6).** Fourth Year.

Tu., Th., Sat., at 10.....Professor Fryer.

9. **Introduction to Psychology (Psychology 1).** Second Year.

Lectures and experiments.
Mon., Wed., at 10, and one laboratory period to be arranged.
This course is a prerequisite for all other courses.
Professor Tait and Mr. Martin.

10. **Child Psychology (Psychology 6).** Third and Fourth Years.

Lectures, readings and reports (half course).
(Given in 1931-32.)
Second term; Tu., Th., Sat., at 10.....Professor Tait.
Prerequisites:—Psychology 2 or 5, taken previously or concurrently.

11. **Social Psychology (Psychology 7).** Third and Fourth Years.

Lectures, readings and reports.
Tu., Th., Sat., at 10.....Professor Tait.
Prerequisites:—Psychology 2 or 4, taken previously or concurrently.

12. Vocational and Industrial Psychology (Psychology 14). Third and Fourth Years.

Lectures, readings and reports.

First term; Tu., Th., Sat., at 11.....Professor Tait.

(Given in 1931-32.)

Prerequisites:—Psychology 3, taken previously or concurrently.

15. Chemistry.

The fundamental laws dealing with chemical change; the preparation, properties and uses of the common elements and their compounds; an introduction to the chemistry of organic substances.

The lectures will explain the commoner processes of life and will be illustrated by appropriate demonstrations suited to the work of greatest interest to the students.

Two hours lectures, three hours laboratory.....Professor Hatcher.

18. Elementary Zoology (Zoology 1).

First term; Mon., Wed., at 2.

Laboratory Fri., 2-4.....Professor Berrill.

19. Introduction to the Study of Society (Sociology 1). Second Year.

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

(a) Tu., Th., Sat., at 10.....Dr. Dawson and Dr. Hughes.

(b) Tu., Th., Sat., at 11.....Dr. Dawson and Dr. Hughes.

20. The Community (Sociology 2). Third and Fourth Years.

A study of Greater Montreal in comparison with the small town and open country communities; analysis of the basic forces that condition the social life and social institutions of the great community; the trend of urbanization and its effects on human behaviour; cities as centres of dominance and of culture; student research under direction.

(Given in 1931-32.).....Dr. Dawson.

8. **Social Pathology (Sociology 4).** Third and Fourth Years.

The processes of social disorganization; the basic causes of poverty, unemployment, irregular work, and the consequent demoralization of the individual and disorganization of the social group; modern methods of research related to social pathology.

Text:—Parmelee, Poverty and Social Progress (Macmillan).

Mon., Wed., Fri., at 10, second term.....Dr. Hughes.

22. **The Family (Sociology 7).** Third and Fourth Years.

The study of the family as the fundamental institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life; present-day disorganization and reorganization of family life.

Mon., Wed., Fri., at 10; first term.....Dr. Dawson.

23. **The Sociology of the Child (Sociology 9).** Third and Fourth Years.

The child as a developing personality; the normal cycle of social growth in the family; modern supplementary institutions for the normal child, such as the school, the playground and the social agency; the dependent child and the delinquent child, and the institutions which treat them.

Mon., Wed., Fri., at 12; first term.....Dr. Hughes.

24. **Educational Psychology (Psychology 9).** Third and Fourth Years.

Lectures, readings, experiments and reports.

Two lectures and one laboratory period.

Prerequisites:—Psychology 2 or 3, taken previously or concurrently.

Tu., Th., Sat., at 11.....Professor Kellogg.

25. **General Principles of Education (Education 1).** Third Year.

(a) The educative process; educational ends; social implications of education; the school; forms of school; school systems; modern trends in education.

(b) History of education; Greek education; the Renaissance; modern education from Rousseau; Studies of (i) Plato's "Republic," (ii) Milton's "Tractate of Education; (iii) Rousseau's "Emile," (iv) Spencer's "Education."

Mon., Wed., Fri., at 4.....Professor Clarke.

26. Method and School Organization. Fourth Year. **(Education 2.)**

26. Method and School Organization. (Education 2.) Fourth Year.

(a) Theory of instruction; principles of method; construction and adjustment of curricula; types of teaching procedure; (b) methods of teaching school subjects; (c) school organization and administration, including a survey of the School Law and Regulations of the Province of Quebec; (d) control and discipline.

Tu., Th., at 4; Sat., at 12.....Professor Clarke.

51. Introduction to Philosophy and Logic (Philosophy 1).

(a) A careful study of the essentials in Locke, Berkeley, Hume and Kant, and their application to general philosophy.

(b) The elements of Logic, Deductive and Inductive. Exercises in Logic.

Tu., Th., Sat., at 10....Professors Mackay, Hendel and Porteous.

52. Moral Philosophy (Philosophy 2).

A study of moral character and of the various types of ethical principles recognized in Western culture. The first term will be devoted entirely to a consideration of the great classics of moral philosophy. The latter part of the second term will be spent upon contemporary ethics developed in the light of the modern sciences of man and society. The reading for the whole course will comprise: *Selections* from Hobbes, Spinoza, Rousseau and Kant; J. Burnet. *Aristotle on Education;* Bishop Joseph Butler, *Fifteen Sermons Preached in the Rolls Chapel* (ed. Mathews, Bohn Lib., Bell); J. S. Mill, *Utilitarianism*; W. E. Hocking, *Human Nature and Its Remaking* (Yale University Press); W. Fite, *An Adventure in Moral Philosophy.*

Tu., Th., Sat., at 11 (two lectures and one discussion).

Professor Hendel.

53. History of Modern Philosophy (Philosophy 4). (This course is divided into two half courses, (a) and (b).)

A survey of the ideas and philosophies of the period from the Renaissance to the present. The Philosophers will be interpreted both as individuals and as representative men influenced by and contributing to the opinions and activities of their own times. The lectures aim to give comprehensive views of the state of thought in the Seventeenth,

Eighteenth and Nineteenth Centuries, particularly as regards science and religion, and history, politics and the social conditions. The discussions in conference will be on the writings of the masters of modern philosophy. *Selections* from Descartes, Spinoza, Leibniz, Locke, Hume, Kant, Hegel and Bergson.

(a) Modern Philosophy before Kant.

(b) Kant and subsequent Philosophy.

Tu., Th., Sat., at 12 (two lectures and one discussion).

Professor Hendel.

COURSES IN THE FACULTY OF MEDICINE

14. Bacteriology. General Course (Bacteriology 1). Lectures and laboratory.

Spring term.

Pathological Institute.....Professor Harrison and Assistants.

15A. Biochemistry—Lecture Course (Biochemistry 1).

During the first half of the course the lectures will deal with the chemical constitution, the physical and other characters and the relationships of the products of the activities of living matter, carbohydrates, fats, proteins, urea, purins, etc., and in the second half will involve an extensive discussion of (a) the origin, character and the active properties of the various ferments of the digestive tract; (b) the chemical and physical processes involved in, and the products resulting from, the digestion, absorption and assimilation of the foodstuffs in the human body; (c) the intermediate and ultimate products of metabolism, and (d) the chemistry of the tissues and of blood, bile and urine.

Four hours a week during the Autumn and Winter terms.

Professor Collip and Assistants.

Physiology, Introductory Course (Physiology 1). Lectures and demonstrations. In this course, which is comprehensive rather than detailed, the general principles of the subject are dealt with.

Five hours a week during the Spring Term.

Professor Tait and Assistants.

COURSES IN THE SCHOOL FOR SOCIAL WORKERS

39A. Introduction to Social Work (Social Work I).

The aim of this course is to present a general view of the social work field. Through a discussion of the function of community agencies, the principles and methods of social case work will also be dealt with.

Three hours, First Year.....Miss Reid.

39B. Social Case Work (Social Work X).

This course presents, through the study of actual histories, the case method of dealing with social maladjustment. It enables the student to approach, analyze and interpret individual, family and group problems and to recognize the basis upon which to work out a solution. It discusses the function of the different types of social agencies in the working out of a social programme, and offers a practical basis for constructive and preventive social work.

Three hours, Second Year.....Miss Reid.

40. Social Welfare Administration (Social Work XVI).

Historical development; scope, and relations between public and private agencies; organization and structure of a social agency; officers and boards of management; executive and staff; volunteer service; personal efficiency; office management; social agency accounting; social agency financing, individual, collective; social work publicity; social work statistics; social work co-ordination; the field of Protestant and non-sectarian social work in Montreal.

Two hours, Second Year, second term.....Mr. Falk.

THE LIBRARY SCHOOL

Plans for a sessional Library School at McGill Univrsity were made in the Spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany. In order to lose no time, a summer course was provided for that year, thus constituting the first library school in Canada. Owing to limited funds, the winter course could not then be provided, and the summer course was repeated in 1905-1911, 1913-1914, 1920-1924, 1926, and 1927. In 1928 the Summer Course became a regular part of the Library School and will continue to offer a six weeks' course of approved training for library assistants and Librarians in small libraries.

In 1921 the University Librarian again proposed the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first winter course under the auspices of a Canadian university opened in October, 1927. It has been accredited as a Junior Undergraduate Library School by the Board of Education for Librarianship of the American Library Association. In addition to fundamental courses in library methods and administration, the School offers special advantages and opportunities in training for special libraries and for college and university libraries, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

In 1930 the Corporation of the University established the degree of Bachelor of Library Science (B.L.S.) to be conferred on the successful completion of one year's work in the School.

REQUIREMENTS FOR ADMISSION

A candidate must hold a Bachelor's Degree from an approved college or University. Application forms may be obtained from the Director.

Applicants over thirty-five years of age are not encouraged to enter the School.

Teachers and qualified persons may attend the special lectures.

Students must offer one year's work in a foreign language, or must take such a course in addition to the Library School curriculum.

Ability to use a typewriter is a valuable part of the equipment of a library assistant, and students are encouraged to provide themselves with a portable typewriter, or should rent one from the School.

PARTIAL STUDENTS

A limited number of partial students may be admitted to courses each year. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected and they must fulfil all requirements of classroom work and tests prescribed for regular students in these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee; but no certificates shall be given for attendance at lectures unless the corresponding examinations have beeen passed.

SCHOLARSHIP AND PRIZES

The Ethelwyn M. Crossley Scholarship Fund is available for women students. Details may be obtained on application to the Secretary of the School.

Book prizes are given to the most efficient student in the courses on Library Administration, The History of the Book, Children's Reading, Cataloguing, and Reference Work.

FEES AND EXPENSES

FEES

Fees are due and payable to the Bursar at his office on October 14th, but they will also be received before October 1st or on October 2nd, 3rd, 4th or 5th. After October 14th or January 31st (as the case may be) an additional fee of $2.00 will be exacted of all students in default.

Fee for the Library Course (including the use of the Library and Schoool Certificate)	$150.00
By instalments:	
First instalment, if paid before October 14th	77.00
Second instalment, if paid before January 31st	77.00
Fee for partial students, per point, in required courses	15.00
Fee for partial students, per point, in elective courses	12.50
Library fee for partial students taking less than two points, unless registered at McGill	4.00
Fee for each supplemental examination	5.00
Certificate for partial students	1.00
Fee for Summer Course	60.00

Immediately after October 15th (or February 1st, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

CAUTION MONEY

Every student is required to deposit with the Bursar the sum of $15.00 as Caution Money to cover danage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session.

FIELD WOIK

The Library School trip to New York in March is a required part of the Library Course, and students should allow a minimum of $75.00 for this purpose.

TEXTBOOKS AND MATERIALS

Students should allow approximately $35.00 for textbooks, blank forms, cataloguing cards, and other library supplies needed during the session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of $1.00 per month.

BOARD AND RESIDENCE

Information about boarding and lodging houses may be obtained on application to the Secretary of the School. Accommodation can be obtained in private houses in the vicnity of the Library at a cost of $60.00 and upwards per month or, separately, board at $45.00 to $55.00 per month, and rooms from $15.00 to $20.00 per month. Men students can obtain board at the McGill Union at low rates, either in the dining room or at the lunch counter.

CLUBS AND SOCIETIES

Women students of the School are eligible for membership in the Monteregian Club, 3426 McTavish Street, and, if University graduates, in the University Women's Club, 3492 Peel Street.

Membership in the McGill Women Students' Society, and subsidiary societies, is required of women students of the Library School at a fee of $2.50 with an additional fee of $1.50 for the *McGill Daily* and of $6.00 for athletics and student activities.

Men students are required to pay a student fee of $17.00 for the *McGill Daily,* athletics, tickets to games, and the use of the Union.

PRELIMINARY READING

Students who wish to prepare themselves during the preceding summer for the winter's work may obtain, on application to the Secretary of the School, a list of suggested books for professional reading.

LIBRARY VISITS

The lectures and practice work of the School are supplemented and illustrated by required professional visits and reports.

(*a*) Visits to libraries, binleries, book shops, museums, and printing establishments in Montreal and its neighbourhood.

(*b*) A week's visit, under the direction of members of the Faculty, to similar institutions in New York and adjacent cities.

COURSE OF STUDY

The numbers in right-hand columns represent the hours per week. Students must choose electives to make up at least 15 hours per week each term, *but electives may be taken only with the approval of the instructor.*

Course Numbers	I.—REQUIRED COURSES	First Term	Second Term
1– 2	Cataloguing and Classification	4	2
3– 4	Reference Work and Bibliography	3	3
5– 6	Book Selection	2	2
7–	Trade Bibliography and Orders	1	—
– 8	Circulation, Publicity, and Extension	—	1
9–10	Organization and Administration of Libraries	2	2
11–12	Field Work, Observation, and Visits	1	1
		13	11
	II.—ELECTIVE COURSES		
13–14	History of Books and Libraries	1	1
15–	Children's Reading	1	—
–16	Library Work with Children	—	1
–18	School Libraries	—	1
19–20	Special Libraries	1	1
–22	College and University Libraries	—	1
–24	Indexing and Filing	—	1
–26	Advanced Classification	—	2
		3	8

DESCRIPTION OF COURSES

1-2—Cataloguing and Classification. Four points, first term; two points, second term. MISS HERDMAN.

The aim of the course is to teach the students to be thoroughly familiar and conversant with the principles of classification and cataloguing (including subject headings); how to think out their classification problems logically and independently; and how to arrive at accurate decisions. It is also to drill them in the form of the unit card and the actual procedure of a catalogue department; to teach them familiarity and skill in the use of books which are necessary tools used in the actual practice of the classification and cataloguing of books. In the second term are taken up the special problems of cataloguing and the more complicated problems of classification.

The students become thoroughly conversant with Dewey's and Cutter's classifications, the A.L.A. Catalogue Rules, and the A.L.A. and Sears Subject Headings, and each student completes a catalogue of approximately 200 books which illustrates the usual and special problems of classification and cataloguing and serves as the basis for practical problems in indexing and filing.

In the class work definitions of terms, and the meanings and significance of subjects are reviewed, so that the work can be intelligently done, and in the laboratory work the individual problems of each student are worked out with the student.

3-4—Reference Work and Bibliography. Three points, each term. MISS HIGGINS.

The work of this course consists of a careful and minute study of the standard books of reference in English, French, and German, as regards author's name and record, publisher, edition and date, the scope and special features, limitations, arrangement and indexes, as well as the kind of articles included.

During the first term a general view of the field of reference work is given by means of the study of the most used popular reference books. A more intensive study of works of more scholarly character follows in the second term.

The course is designed to acquaint the students with all the reference tools through the use of which they may aid the readers of a library in finding both simple and elusive material, as far as the resources of the library will allow. No small part of the work is the instruction of the administration of the department and in the selection of a working collection of reference books, as well as the consideration of a proper arrangement of reference material to aid in the dispensing of prompt and accurate service. The work is carried on by means of lectures, discussion and laboratory periods.

In addition, students will be taught how to prepare a practical bibliography and will be made familiar with the outstanding bibliographies in particular subjects, under the direction of specialists. The practical use of bibliographies in library work is emphasized in lectures and by assigned readings.

Class work consists of a careful study of Mudge's *New guide to reference books,* with discussions, and lectures on additional material not included there. Readings on topics of special interest and problems based on the reference books are assigned for outside study.

5-6—Book Selection. Two points, each term.
PROFESSOR CARTER.

The purpose of the course is to train students in the ability to select books for different types of libraries and readers, by interpreting community needs and interests in terms of the most helpful and interesting books. In order to obtain the necessary skill to perform these functions, the course includes principles of book selection; book aids, their characteristics and use; increased knowledge of books and their publishers from the library viewpoint, each class of books being considered with regard to the libraries to which it is best suited; and annotations for librarians and readers. These objectives are achieved by lectures, reading reports, problems, and discussion.

Text:—Bessie Graham. *The bookman's manual.*

7—Trade Bibliography and Orders. One point, first term.
MISS HIGGINS.

A study of the bibliographical equipment necessary in ordering books and periodicals, English, American, and foreign; the use of catalogues and trade lists; the equipment and administration of the order department; funds, invoices, and accounts; the recording of gifts; book-buying policy; problems and practice.

8—Circulation. One point, second term.
MISS HIGGINS.

The organization of the circulation department, the equipment of the loan desk, and a comparative study of the different methods of charging books, with practice.

9-10—Organization and Administration of Libraries. Two points, each term. DR. LOMER and Special Lecturers.

Relation of the library to other educational organizations; elements of library administration of various types of libraries; library legislation; business and ethics of librarianship; library work in con-

nection with museums and exhibitions; relation of librarian and trustees; committees and committee meetings; library buildings and equipment; supplies and stock; the budget, distribution of funds, accounts, minutes, reports and statistics; library extension, travelling libraries, inter-library loans, branches, stations, etc.; inventory and checking stack; inter-relation of departments and economical routine; binding materials, processes, and routine; staff management and records; publicity.

11-12—Field Work, Observation, and Visits. One point, each term.

As all instruction is given with a view to its application in professional service, it is essential that students have sufficient opportunity for practical work. The School affords this in three ways:

1. The problems and laboratory work involved in the technical courses provide, at the rate of two hours for every lecture, the conditions necessary for the practical application of the principles and methods taught.
2. Field work in the second term provides an opportunity for wider observation, comparison of libraries and their methods, and actual practice in the routine of library work where the pace is set by experienced workers. A programme of conducted visits to other libraries, including a week's visit to New York and vicinity, is planned for the second term as a required part of the course. This aims to give the student an opportunity to observe the practical applications of subjects taught.
3. Two weeks of practical work under supervision is planned to take place in May, in order that the student may acquire an appreciation of library work as a whole.

13-14—History of Books and Libraries. One point, each term.
DR. LOMER.

A course of lectures, fully illustrated by lantern slides and exhibits, dealing with the development of the arts of record from prehistoric times to the present day. The production and care of manuscripts and books in classical, medieval, and modern times will be considered, and a brief sketch will be given of the origin and development of printing in China and in Europe. The lectures are supplemented by outlines, readings, and an essay.

15—Children's Reading. One point, first term.
PROFESSOR CARTER.

The aim of the course is to develop an approach to children's literature through a consideration of children's interests and activities;

to become acquainted with the classics suited to children as well as with recent children's books; and to suggest methods of presenting literature which children will enjoy and, at the same time, develop their ability to appreciate good books.

This is accomplished by means of lectures on child psychology, aids to the selection of children's books and illustrators of children's books, as well as by the reading and presenting of different types of books which are always considered from the viewpoint of inclusion in a children's library.

16—Library Work with Children. One point, second term.
PROFESSOR CARTER.

Consideration is given to the aims of library work with children; to make good books available to all the children of a community; to train boys and girls to use the library with discrimination; and to build character and develop literary taste through the medium of good books and the influence of the children's librarian, and the best way in which these aims may be accomplished.

How to stimulate interest in the organization of a children's library; the qualifications of a children's librarian; equipment and administration of children's rooms; personal work with children and the way in which environment, social differences and background affect children in relation to their reading. Lectures, problems, discussion, surveys.

18—School Libraries. One point, second term.
MISS HIGGINS.

The organization of libraries in schools of various types is brought out by means of lectures and discussion. The relationship of libraries to modern education is always kept in view. The work of the high school library is especially considered from the standpoint of its history; the present standards; types of libraries; the physical plant; financial aspects; staff qualifications, duties, etc.; co-operation with departments of the school; special problems, such as discipline, fines, etc.; and, finally, the selection of library material.

19-20—Special Libraries. One point, each term.
PROFESSOR CARTER and Special Lecturers.

Since it is generally realized that, although the fundamentals of library service may be the same in general and special libraries, there are certain differences in method and viewpoint. The object of the course is to point out specific differences, and to give some idea of the scope of special library work.

During the first term, a survey of the special library field is presented in order to give the student some idea of the function of special libraries in the daily work of the world. Several of these lectures are given by authorities in their fields.

The aim of the course in the second term is to show how methods learned in the general library course may be applied to special library problems. Lectures, visits, and problems.

22—College and University Libraries. One point, second term.
DR. LOMER.

This course is designed for those, preferably college graduates, who wish to specialize in work in college and university libraries. After a brief consideration of the historical background, the application of processes common to other libraries will be reviewed and emphasis will be laid upon the place of the library in university education and administration, the selection of books, the apportionment of funds, the problems of departmental libraries, reference work, reserved books, graduate research, the use of the stack, and instruction in the use of the library.

24—Indexing and Filing. One point, second term.
MISS HERDMAN.

The principles of alphabetic, numerical, geographic, subject, and classified filing; analyses of filing conditions; central files, and organization; and the basis of choice of filing system for material to be filed; with some work in the principles of indexing; all of which is given practical application in problems.

26—Advanced Classification. Two points, second term.
MISS HERDMAN.

The principles of classification, the history of their development, and their application in the Dewey, Brussels, Cutter, Brown and Library of Congress classifications.

SPECIAL LECTURES

During the session the work of the school is supplemented by special lectures by librarians and others engaged in related activities.

SUMMER SESSION

The McGill University Library School will offer a six weeks' course in general library methods, beginning on Wednesday July 2nd, and ending on Saturday, August 9th, 1930.

The course is designed to prepare librarians for small libraries or assistants for larger libraries, and it fulfils the requirements and embodies the course of training approved by the Board of Education for Librarianship of the American Library Association, by which the Summer Course has been accredited.

The Library School, the oldest of its kind in Canada, will hold its sessions in a portion of the University Library which has been specially equipped for the purpose, and includes a lecture room, with stereopticon and refractoscope, and two study rooms for students, equipped with individual desks. In addition to the Library School collection of books, students have access to the stacks of the University Library, a fine limestone building of Romanesque style, situated on the campus and containing, with the departmental libraries, over 300,000 volumes. There is a Library Museum containing an exhibition illustrating the historical development of the book; and special exhibits are arranged in connection with the course.

COURSE OF STUDY

Group I

Cataloguing, Classification and Subject Headings. 30 lectures.

A simplified course aiming to meet the needs of the school and the small public library. Instruction in the principles of dictionary cataloguing is given by means of lectures and supervised laboratory work. The assigning of subject headings is also taught. The fundamental principles of classification form a basis for the practical application of the Dewey Decimal and Cutter Expansive systems. Some attention is given to the ordering and use of Library of Congress printed catalogue cards, the assigning of book-numbers from the Cutter-Sanborn author tables, shelf-listing, alphabeting, and filing. These various processes will be correlated in order to give the students practice in planning the full cataloguing of a book. Students who can do so are urged to type their catalogue cards.

Two fifty-minute laboratory periods per lecture hour are a required part of the course.

Group II

Book Selection. 12 lectures.

Approach to this subject is made through the underlying principles of selection and a consideration of various classes of books (travel,

history, biography, poetry, drama, and fiction). Practice in using printed aids to assist selection, in writing booknotes, and selecting books for different types of readers, is given. Lectures, reports, problems.

Subject Bibliography. 4 lectures.

A general consideration of the more important Canadian, English, French, and American publications in this field which are used in the average small public library. Correct bibliographic form is emphasized in the compilation of a list of books and periodical articles on some particular subject.

Children's Literature. 6 lectures.

Principles of book selection as applied to children of varying ages and interests; story-telling; administration of the children's room.

Trade Bibliography and Ordering. 4 lectures.

Instruction is given in the use of the ordinary bibliographic equipment necessary in ordering books and periodicals. The making of order cards and the routine of ordering are explained. Practical problems are assigned.

GROUP III

Reference Work. 10 lectures.

The work of the reference course is the study and use of the outstanding reference books. Lectures are given and practical problems assigned. The consideration covers such subjects as dictionaries, encyclopedias, periodical indexes, biography, history, geography, literature, etc.

Government Publications. 2 lectures.

An elementary consideration of the chief government publications of Canada, Great Britain, and the United States; how to obtain, arrange, and use them.

GROUP IV

Organization and Administration of Libraries. 16 lectures.

An elementary consideration of administration from the point of view of the small library, including committees and relations of trustees and librarians, the business and ethics of librarianship, the supervision of buildings and staff, the preparation of annual budgets, statistics and reports, and library exhibits.

These lectures are supplemented by a consideration of special phases of library work planned as an elementary introduction to aspects of library management which are considered more in detail in the sessional course. The chief topics are:

1. **Library Buildings and Equipment.** 2 lectures.
   A consideration of the fundamental principles of the construction of small libraries, with special attention to heating, ventilation, lighting, and the arrangement of the stack and a consideration of the essential equipment of a small library.
2. **Publicity and Extension.** 2 lectures.
   Methods of publicity as aids to help advertise the value of the library will be stressed, and ways and means of extending library service will be considered. The assignments will consist of readings.
3. **Loans and Stack Administration.** 2 lectures.
   A consideration of charging systems with their application to the needs of the small library and to school and college libraries. The arrangement of books in the stacks, checking the shelves, and the rearrangement of classes will also be considered, as well as the general care of books.
4. **Binding and Repairs.** 2 lectures.
   The principal materials and processes of binding will be considered from the point of view of their practical application and cost. The routine of the binding department will also be considered and practice in elementary repairs will be supplemented by a visit to local binderies.
5. **Periodicals and Serials.** 2 lectures.
   The recording and arrangement of periodicals and serials will be explained, as well as the equipment and management of a periodical reading room.

Special Libraries or School Libraries.

These courses are elective, and students are required to select one.

1. **School Libraries.** 6 lectures.
   Place and function of the school library in relation to the curriculum; the high school library; instruction of students in the use of the library; standards for the school library and its equipment.
2. **Special Libraries.** 6 lectures.
   The organization of special libraries, their relation to general library processes and routine, and their individual differences and opportunities.

EXCURSIONS

Saturday mornings will be devoted to the following excursions, which are a required part of the course: (1) Art Association of Montreal, 1379 Sherbrooke Street West; (2) Art Book Binding and Loose Leaf Company, 1a Demontigny Street East; (3) Bibliothèque Saint-Sulpice, 1700 St. Denis Street; (4) Fraser Institute Free Public Library, 637 Dorchester Street West; (5) Mechanics' Institute of Montreal, 890 Atwater Avenue; (6) Public Library of the City of Montreal, 630 Sherbrooke Street East; (7) Westmount Public Library, Westmount Park.

APPLICATIONS FOR ADMISSION

Applicants for admission to the course should be high school graduates with aptitude and personal qualifications for library work and should give evidence of ability to pursue profitably the course. Assistants already engaged in library work or applicants with a definite appointment to a library position are preferred, as the number of students is limited. The Library School gives a certificate to those who have successfully completed the course, but this implies no university credit, and the School does not guarantee positions to students.

FEES

The fee for the course is $60, payable in advance at the Bursar's Office.

Students may rent portable typewriters for $2 for the session and may obtain necessary supplies from the Secretary of the School, who will also, on request, furnish a list of approved boarding houses.

All inquiries and correspondence should be addressed to:

THE DIRECTOR

McGill University Library School.

DEPARTMENT OF EXTRA-MURAL RELATIONS

DIRECTOR:—WILFRID BOVEY
SECRETARY:—MARJORIE M. HODGE

The Department of Extra-Mural Relations carries on work in adult education. It is concerned with lectures and study for persons who are not registered in any Faculty or Department and are not aiming at academic credit. Its object is to bring the community and the University into closer touch one with the other, and to achieve this end it functions largely outside the University walls.

Lyceum Lectures are offered in the Province of Quebec and neighbouring district. Societies, clubs and other groups may arrange for single lectures or series of separate lectures on subjects of general interest. Most of these lectures are of a popular nature; a few are intended for professional audiences already acquainted with the technical nature of the subject. Details are given on pages 613 to 627.

Community groups wishing to arrange courses of study for non-academic audiences are invited to avail themselves of the services of the Department.

An extensive series of Commercial Courses will be given during the session 1930-1931 in co-operation with the Montreal Board of Trade, the Chartered Institute of Secretaries, the Canadian Society of Cost Accountants and the General Accountants' Association. These courses prepare students for the Board of Trade Diploma and for the diplomas, etc., of the various co-operating associations. A separate announcement will be sent on request.

In co-operation with the University Library, the Department loans sets of slides accompanied by written lectures free of charge. These are of particular use in towns which by reason of distance find it difficult to obtain an adequate number of speakers. On examination of the list of these illustrated lectures on pages 19 and 20 it will be noted that each lecture is complete in itself, but that it is possible to build up courses on such subjects as Canadian Geography, Canadian Economics, Canadian History, The British Empire.

The value of research in all subjects is now generally recognized. Whether the question involved be some technical difficulty in manufacturing or a problem of employment or hygiene, the staff of the University is ready and willing to deal with it and to give all the assistance possible. It is one of the duties of the Department of Extra-Mural Relations to promote such co-operation and to put inquirers in touch with the proper authorities at McGill.

Descriptive articles, pamphlets and photographs are published from time to time by the department, and copies, when available, may be had on application.

I. LYCEUM LECTURES

General

Local committees, schools or other authorities are asked to select subjects from the list below and indicate the day or days on which they wish the lectures to take place. Lectures will be provided during the periods from October 14th to December 15th, and January 6th to March 30th.

Outside Montreal

Local committees outside Montreal are called upon to provide accommodation and entertainment for lecturers and to pay railway expenses and taxi fares to and from stations. The University pays the lecturers' fees.

In the case of illustrated lectures, if local committees cannot provide a lantern, one will be furnished at an additional fee of $2.00. Local committees are expected to provide operators.

When a soloist is provided for musical lectures, local committees are called upon to pay the travelling expenses of the soloist *and also his fee.*

In Montreal and Environs

In Montreal, Westmount, Outremont, Lachine, Verdun, Montreal West, Mount Royal, Montreal North and St. Lambert committees are called upon to pay the University a fee of $15 per lecture as a contribution to the general expenses of the Department.

A lantern and operator are supplied at an additional charge of $5.00. Lantern only is supplied at a charge of $2.00.

Accounts

Co-operating committees will receive a bill for expenses from the Secretary of the Department after a lecture has taken place.

Cheques are to be made payable to McGill University and forwarded to the Secretary of the Department of Extra-Mural Relations.

Local committees outside Montreal are asked to settle accommodation expenses direct with hotels.

Lecturers and Subjects

MAUDE E. S. ABBOTT, B.A., M.D., L.R.C.P. & S., Assistant Professor of Medical Research.

1. Travelogue in Italy, Dalmatia and the Near East. One or two lectures as desired. (Illustrated by projectoscope.)
2. Florence Nightingale and the History of Nursing (Illustrated).

E. R. Adair, M.A., Associate Professor of History.

1. The Spanish Pyrenees (Illustrated).
2. Corsica, the Birthplace of Napoleon (Illustrated).
3. French-Canadian Art (Illustrated).
   An account of the development of art, especially wood-carving, among the French of the Province of Quebec.
4. Spain under Primo de Rivera.
   The changes in Spain, socially and economically, and the causes for the rise and fall of the Directorate.
5. The Importance of the Seventeenth Century in the History of England (Illustrated).

Howard T. Barnes, D.Sc., F.R.S., Professor of Physics.

1. Ice Engineering (Illustrated).
2. Ice Destruction (Illustrated).
3. The Sunrise (Illustrated in natural colours).
4. Icebergs (Illustrated by slides and films).
5. Problems of Snow in Cities (Illustrated).
6. Recent Advances in Ice Research (Illustrated).

Note:—Available outside Montreal between September 15 and December 15, 1930.

William Howard Barnes, M.Sc., Ph.D., Sessional Lecturer in Physics.

1. X-rays and the Structure of Matter (Illustrated).
   An account of the nature of X-rays and their applications to the study of the atoms and molecules in solids; to certain problems in metallurgy and engineering; and to the human body.

Note:—Available in Montreal only.

John Beattie, M.D., D.Sc., Associate Professor of Anatomy.

1. Our Ancestors (Illustrated).
   A lecture epitomizing the recent work on the older forms of the human race and their relation to the modern species.
2. Our Feelings (Illustrated).
   A lecture on the mechanisms whereby we learn of changes outside and inside our bodies.
3. The Development of the Human Brain.
   A non-technical lecture on the history of the changes which have taken place in the building of the human brain mechanism.

D. MAUD BELLIS, Lecturer in Art, Macdonald College.

1. Art in Everyday Life (Illustrated).
2. The World's Painters (Illustrated).

WILFRID BOVEY, O.B.E., LL.B., F.C.I.S., Director of Extra-Mural Relations.

1. Past and Present in Quebec (Illustrated).
   Historic sites and scenes and modern developments.
2. To the North Country by Air (Illustrated by slides and films taken from aeroplanes).
   Economic developments in Northern Quebec. Air mail and passenger routes.
3. Road, Rail and River (Illustrated).
   Canadian transportation systems and how they have built up Canada.
4. Humours of Canadian History.
   History is not always serious.
5. A Man's Mind.
   Some new aspects of education.

A. A. BRAMLEY-MOORE, B.A., M.D., Demonstrator in Ophthalmology.

1. Eyesight and Its Care.

NOTE:—Available in Montreal only.

VICTOR BRAULT, Laureat, Academy of Music of Quebec, Instructor in Singing.

1. The Art of Singing (With vocal experiments).
2. The Period of Bel Canto and the Modern Lyric Style.
3. Lecture Recitals of Italian, German, English and French Songs.
4. The History of Opera.

JAMES WINFRED BBIDGES, B.A., M.A., Ph.D., Professor of Abnormal Psychology.

1. Environmental Factors in Mental Health.
   What is inherited? the influence of environment in the development of intellect, temperament and character; environmental factors as causes of mental defect and disease; the healthy environment.

2. Psycholoanalysis and Mental Health.
   Psychoanalysis as a contribution to the understanding of human nature; the meaning of the unconscious, mental conflict, repression, over-compensation and sublimation; illustrations from every-day life; significance for mental health.
3. The Meaning of Dreams.
   Critical discussion of various theories; dream symbolism; relation of dreams to reverie, to poetry, and to mental diseases; the study of dreams as a help to self-knowledge.
4. Suggestion and Hypnosis.
   Suggestion and suggestibility in daily life, in mental disease and in the hypnotic state; fact and fancy regarding hypnosis.
5. Personality, Normal and Abnormal.
   The elements of personality and their organization; intellect, temperament and character; types of personality; imbalance, dissociation and other abnormalities of personality.

KATHARINE MAY BANHAM BRIDGES, B.Sc., M.A., Assistant Professor of Psychology.

1. Social and Emotional Development in Nursery School Children (Illustrated).

C. A. BRODIE BROCKWELL, M.A., Professor of Hebrew and Semitic Languages and Chairman of the Department of Oriental Languages.

1. Creation and Evolution as Taught in Genesis.
2. The Lady of the Rib; a Study in Biblical Social Science.
3. Arithmetic in the Time of Abraham, or, Counting on the Circular Abacus.
4. Mothers and Motherhoods in Biblical Times.

HOWARD DAYNE BRUNT, B.A., Ph.D., Head of the Department of English at Macdonald College.

1. The Arthurian Legends (Illustrated).
2. Architecture and Literature (Illustrated).
3. Biography.
4. Satire in Literature.
5. The Thirteenth Century.
6. Wordsworth (Illustrated).

7. Bunyan.
8. John Masefield: Poet and Man.
9. Drama: Child of the Church (Illustrated).
10. Development of Economic Society.
11. Legend, Myth, Folklore, Tradition.

T. Gordon Bunting, B.S.A., Professor of Horticulture, Macdonald College.

1. Landscape Planting for the Home Surroundings (Illustrated, mostly in colours).
2. The Home Fruit and Vegetable Garden (Illustrated).
3. The Herbaceous Perennial Border in all its Beauty (Illustrated).

Clive H. Carruthers, M.A., Ph.D., Professor of Classical Philology.

1. Jerusalem: The Most Holy City (Illustrated).
2. Odd Words: Curiosities of Language (Blackboard preferable).
3. Semantics: How Words Change their Meanings (Blackboard preferable).
4. Mithraism: An Early Rival of Christianity (Illustrated).

Mary Duncan Carter, Ph.B., B.L.S., Assistant Professor of Library Administration, and Assistant Director of the Library School.

1. How to Choose Books.
2. Why Children's Libraries (Illustrated).
3. Libraries: Their Development and Use.
4. Voluntary Education: A Way to Use One's Leisure

Thomas H. Clark, A.B., A.M., Ph.D., Logan Professor of Palæontology.

1. Montreal Through the Geological Ages (Illustrated by Diagrams and Slides).
   A presentation of the series of events which has, through countless millions of years, contributed to the making of the site of our city.
2. Man's Life on Earth (Illustrated).
   A consideration of the origin, background, progress and future of man, with special reference to prehistoric races.

3. The Life and Achievements of Josiah Wedgewood, Master Potter (Illustrated).
   Wedgewood was responsible, during the eighteenth century, for lifting the ceramic industry in England from a state scarcely deserving the name to a position of international pre-eminence. His life story places him among the giants of a heroic age.
4. The Ice Age in Canada (Illustrated).
   For most of the past million of years Canada has been covered by a blanket of glacial ice, the origin, growth and final disappearance of which form a story whose events have controlled the finding and exploiting of most of Canada's natural resources. (See note to next lecture.)
5. The Geological Story of the Great Lakes and Niagara Falls (Illustrated).
   These are among the most recent, geologically speaking, additions to Canadian scenery. (NOTE: This lecture may be combined with the preceding, and both given together in an abbreviated form.)

DOUGLAS CLARKE, M.A., Mus.B., F.R.C.O., Dean of Music.

1. Musical Appreciation for the Layman (Illustrated by piano and gramophone).
2. Brief Historical Survey of Music (Illustrated by piano and gramophone).
3. Talk on National Anthems with Special Reference to "O Canada."

BROOKE CLAXTON, B.C.L., Lecturer in Law of Insurance.

1. The Canadian Constitution: How Canada is Governed (From one to five lectures).
2. The Amendment of the British North America Act.
3. The Privy Council as a Court of Last Appeal.
4. Canadian National Feeling.
5. Insurance of the Public and the Law.

EARLE WILCOX CRAMPTON, M.S., Assistant Professor of Animal Husbandry, Macdonald College.

1. Heredity—Nature's Game of Chance (Charts or slides may be used).
   No individual exhibits, nor indeed, possesses all the characteristics of his parents. Frequently he exhibits some

characteristics not observed in either his father or mother, but which may have been evidenced in his grandparents. Obviously there is a sorting of the hereditary material from one generation to the next. Is it done according to any fixed scheme?

This lecture answers this question and explains in a popular way the "mechanics of heredity." Its operation in the determination of sex, coat colour, diseases and disease immunity, productive ability, and other characteristics of interest or economic importance to the stock breeder are used as illustrative material.

CARL ADDINGTON DAWSON, B.A., Ph.D., Associate Professor of Sociology and Director of the School for Social Workers.

1. Social Work as a Vocation.
2. Pioneer Conditions in the Canadian West (Illustrated).
3. Shall Teaching in our Canadian Schools be limited to one language?
4. Population Growth in Montreal.
5. The Peaceful Penetration of United States in Canada.
6. The Cultural Differences which separate the English-speaking from the French-speaking Canadians.
7. Family ties in Canada.
8. Disgruntled Canadians.

A. VIBERT DOUGLAS, M.B.E., M.Sc., Ph.D., Lecturer in Astrophysics.

1. Achievements of Canadian Astronomers (Illustrated).
2. Astronomy Ancient and Modern (Illustrated).
3. Stars in the Winter Sky (Illustrated).
4. Within and Beyond the Milky Way (Illustrated).

Specially suitable for children.

1. The Sun and Its Family (Illustrated).
2. Comets and Meteors (Illustrated).
3. Constellations: Birds, Beasts and Giants in the Sky (Illustrated).
4. Telescopes and What They Reveal (Illustrated).

ARTHUR S. EVE, C.B.E., M.A., D.Sc., F.R.S.C., F.R.S., Macdonald Professor of Physics and Director of the Department of Physics.

1. Weather and Weather Prophets (Illustrated).
2. Northern Lights (Illustrated by slides and experiments).

J. HOWARD T. FALK, Lecturer in the School for Social Workers.

1. Some Aspects of the Cost of Social Maladjustment.
2. A Social Work Programme for a Small Town.
3. Co-ordination and Co-operation in the Social Work of a City.

R. DE L. FRENCH, B.Sc., C.E., Mem. Am. Soc. C.E., M.E.I.C., P.E.Q., Professor of Highway and Municipal Engineering and Secretary, Faculty of Applied Science.

1. The Romance of the Post (Illustrated).
2. Scouting for Boys (Illustrated by slides and films).
3. The Engineer and the Public (Illustrated).

MYRTLE HAYWARD, B.Sc., M.A., Lecturer in Household Science, Macdonald College.

1. Malnutrition, its Causes and Effects.
   Deals with malnutrition in children, from an economic, moral and mental standpoint.
2. Food for Efficiency.
   Discusses food selection for efficiency of the human organism.
3. An Investment in Health.
   Deals with the organization and maintenance of a hot school lunch; its need by the growing boy and girl.

MARGARET M. HERDMAN, B.A., Assistant Professor of Library Cataloguing, Library School.

1. The Place of the Library in a Business, or Professional, Organization: Its organization, equipment, relation to other departments, and service it can give.

EVERETT CHERRINGTON HUGHES, B.A., Ph.D., Assistant Professor of Sociology.

1. Modern Children and Old Fashioned Parents.
2. The Juvenile Delinquent: How Did He Become Delinquent and What Shall We Do With Him?

3. Poverty: A Personal or a Community Failure?
4. Can Social Institutions Be Changed?
5. The Play Group and the Gang.

DAVID A. KEYS, M.A., Ph.D., F.R.S.C., Professor of Physics.

1. Drops and Bubbles (Illustrated by experiments and slides).
2. The Beauty of Light (Illustrated by experiments and slides).

ARTHUR S. LAMB, B.P.E., M.D., Director, Department of Physical Education.

1. The Olympic Games (Illustrated by slides and films).
2. Education for Health (Illustrated).
3. Play and Live (Illustrated).

JOHN ERNEST LATTIMER, Ph.D., Professor of Agricultural Economics, Macdonald College.

1. The Mechanization of Agriculture.
2. Business Cycles and Unemployment.
3. Importance of Reforestation.

GEORGES LEMAITRE, Agrégé de l'Université, Assistant Professor of French.

1. Influence of England on Contemporary French Literature.
2. Marcel Proust.
3. The Problem of Louis XVII's Fate.
4. The Life of Marie Antoinette.

(These lectures are available in French or English.)

FRANCIS ERNEST LLOYD, M.A., F.R.S.C., F.L.S., Macdonald Professor of Botany.

1. A Naturalist's Tour of Africa, Including Egypt and Palestine (Illustrated).
2. The House of Bondage in the Promised Land (Illustrated). Descriptive of Egypt and Palestine.
3. Carnivorious Plants (Illustrated).
   i. The mousetrap plant—Utricularia.
   ii. Other carnivorous plants.
4. A Microscopic Vampire (Illustrated).
5. Rubber: Its Source and Preparation (Illustrated).
6. The Vegetation of North America (Illustrated).

G. R. LOMER, M.A., Ph.D., University Librarian, Director of the Library School and Professor of Library Administration.

1. The Book in Egyptian Times (Illustrated).
2. Babylonian and Assyrian Records (Illustrated).
3. The Books of the Greeks and Romans (Illustrated).
4. Medieval Books (2 lectures) (Illustrated).
5. Medieval Libraries (Illustrated).
6. History of Paper and Books in China (Illustrated).
7. The Beginnings of Printing in Europe (Illustrated).
8. How a Book is Made (Illustrated).

NOTE:—Available in Montreal only.

T. W. L. MACDERMOT, M.A., Assistant Professor of History.

1. The Changing Map of Canada (Illustrated).
2. Early Montreal Merchants (Illustrated).
3. The West: Its Growth and development, and people (Illustrated).
4. Some Great Canadian Characters.
5. Canada in Books.

PAUL FLETCHER MCCULLAGH, M.A., Lecturer in Classics.

1. The Art and Philosophy of the Gothic Cathedrals of France (Illustrated).
   How the medieval artists carved in stone the stories of the Bible, and their views of nature and life.
2. Pompeii, Past and Present (Illustrated).
   Houses, paintings and sculpture of the town as seen to-day. Photographs of modern eruptions of Vesuvius.
3. Roman Cities of North Africa (Illustrated).
   With special reference to Carthage, Timgad and Djemila, their dwellings, mosaics, town planning, etc.
4. England in the Time of the Romans (Illustrated).
   The Roman Wall; private and military life of Britain 1800 years ago.
5. Modern Greece and Her Ancient Monuments (Illustrated).
   The Acropolis of Athens, temples, theatres, etc.
6. The Roman Empire (Illustrated).
   Some of its monuments as they exist to-day in England, France, Spain and North Africa.
7. Touring England by Bicycle (Illustrated).

8. Three Weeks in a Third Class Spanish Railway Coach (Illustrated).
9. Seeing France by Bicycle (Illustrated).
10. A Journey across Morocco, Algeria and Tunisia (Illustrated).
11. England's Cathedrals (Illustrated).
12. Masterpieces of Greek and Roman Sculpture (Illustrated).

ROBERT REGINALD MCKIBBIN, B.S.A., Ph.D., F.C.I.C., Lecturer in Chemistry, Macdonald College.

1. Precious Minerals of Everyday Life (Illustrated).
2. What We All Come From and Where We All Go (Illustrated).
3. The Life Blanket of the World (Illustrated).

PAUL ALEXANDER DE MARKY, Concert Pianist, Teacher of Pianoforte, McGill Conservatorium of Music.

1. Lectures for the Layman about Music and Subjects in connection with Music, to promote more General Interest (Pianoforte Illustrations).
2. Academic Lectures: On composers—Art of Pianoforte Playing—Principles of Pianoforte Teaching—Aesthetics and Practical Acoustics of Pianoforte Playing—Tone Colour—Use of Pedal—Transposing and Improvising —Forms of Music, etc. (Pianoforte Illustrations).

LEE CARLETON RAYMOND, M.S., Assistant Professor of Agronomy, Macdonald College.

1. Corn Breeding: Principles, Technique and Results (Illustrated with slides and charts).

H. E. REILLEY, M.Sc., Associate Professor of Physics.

1. Liquid Air and Low Temperatures (Illustrated by slides and experiments).
2. Sounds and Hearing (Illustrated by slides and experiments).
3. X-rays, Their Uses and How Produced (Illustrated by experiments and a few slides).
4. Short Cuts in Arithmetic.
   Entertaining and of interest to young and old, "lightning calculation."

HAROLD JAMES ROAST, F.C.S., F.C.I.C., Lecturer in Metallurgy.

1. The Inner Life and Activity of Metals (Illustrated).

FRANCIS REGINALD SCOTT, B.A., B.Litt., B.C.L., Associate Professor of Federal and Constitutional Law.

1. Modern Poetry.
   A description of new movements in English and American poetry, and a discussion of certain important modern poets.
2. League of Nations.
   A general account of its aims and achievements.

A. NORMAN SHAW, D.Sc., F.R.S.C., Professor of Physics.

1. Rumford, Davy and Joule (Illustrated).

JOHN FERGUSON SNELL, B.A., Ph.D., F.A.A.A.S., F.C.I.C., Professor of Chemistry, Macdonald College.

1. The Maple Syrup Industry (Illustrated by slides and films).
   Historical and descriptive.

CARLETON STANLEY, M.A., Professor of Greek.

1. The Poetry of Thomas Hardy.
2. The Art of Katherine Mansfield.
3. A Ramble in Greece (Illustrated).

ALFRED STANSFIELD, D.Sc., A.R.S.M., F.R.S.C., Professor of Metallurgy.

1. Metallurgy Ancient and Modern (Illustrated).
2. How Metals Are Obtained From Their Ores (Illustrated).
3. The Electric Furnace (Illustrated by slides and experiments).

ALICE M. STICKWOOD, B.S., M.A., Lecturer in Dietetic and Institution Administration, Macdonald College.

1. Food Selection.
2. The Well-Balanced Meal.
3. The Best Use of Foods.
4. Why We Need Minerals and Vitamines in Our Foods.

E. FABRE SURVEYER, B.A., B.C.L., LL.L., Professor of Civil Procedure.

1. Maria Chapdelaine.
2. Canada's Rise as a Nation.
3. James McGill.
4. Joseph Frobisher.
5. William Grant.

6. Philippe de Rocheblanc.
7. Pierre A. de Bonne.
8. Adam Mabane: From Surgeon's Mate to Chief Justice.
9. Hon. John Young.
10. Husband and Wife in Louisiana.
11. Dickens in France.
12. The Struggle for English Commercial Law in Lower Canada.

ROBERT RANDOLPH THOMPSON, M.C., V.D., C.A., Professor of Accountancy, Business Organization and Scientific Management.

1. The Campaign for the Capture of Jerusalem, 1917 (Illustrated).
2. The Gallipoli Campaign (Illustrated).
3. Tales and Legends of the Scottish Border (Illustrated).
4. Mohammedan Egypt (Illustrated).
5. Saracenic Art in Egypt (Illustrated).

LESSLIE R. THOMSON, B.A.Sc., M.E.I.C., M.Am.Soc. C.E., Professor of Fuel Engineering and Special Lecturer in Structural Engineering.

1. Some Notable Small Boat Voyages (Illustrated).
2. Sailing Ships and Their Development (Illustrated).
3. The Coal Problem of Canada (Illustrated).
4. What's in a Lump of Coal? (Illustrated).
5. Ships and Shanties (Illustrated by slides, music and models).

NOTE:—In lecture No. 5 Professor Thomson will be assisted by Mr. Jack Howell as soloist. Local committees are called upon to pay the travelling expenses of the soloist and lecturer and an additional sum of $10 covering the soloist's fee.

RAMSAY TRAQUAIR, M.A., F.R.I.B.A., Macdonald Professor of Architecture.

1. Old Houses and Furniture of Quebec (Illustrated).
2. Old Churches and Wood Carving in Quebec (Illustrated).
3. The Modern Trend in Painting.

NOTE:—These lectures are available in Montreal, Quebec, Ottawa and large towns only.

PHILIP J. TURNER, F.R.I.B.A., Special Lecturer in Architecture.

1. Glastonbury Abbey—the Birthplace of British Christianity (Illustrated).

2. The Abbey—Bury St. Edmunds (Illustrated).
   The story of a great Norman Abbey, the birthplace of Magna Charta.
3. Liverpool Cathedral 1880-1930 (Illustrated).
4. The English Parish Church (Illustrated).
   An account of the growth of the country church building from Saxon times to the Reformation.
5. Old English Country Life and Customs (Illustrated).
6. Cottages and Cottage Life of Old England (Illustrated).
7. The English Manor House (Illustrated).
8. The Romance of the Old English Inn (Illustrated).
9. The Inns of Charles Dickens (Illustrated).
10. Man and His Buildings (Illustrated).
    The aspiration of every age reflected in its architecture.
11. The Present Trend in Architecture (Illustrated).

NORMAN VINER, B.A., M.D., C.M., Demonstrator in Neurology.

1. Heredity in Mental Disease (One to six lectures).
2. Modern Mental Healing (One to six lectures).
3. The Functional Element in all Disease (One or two lectures).

ALFRED E. WHITEHEAD, Mus. Doc., F.R.C.O., Lecturer in Music and Instructor in Organ, Organist of Christ Church Cathedral.

1. Pepys and His Diary (Illustrated by slides and one song, sung by lecturer).
2. Folk Songs (Illustrated by piano and songs).
3. Christmas Carols (Illustrated by piano and songs).

NOTE:—Lectures 2 and 3 require two soloists in addition to the lecturer. Local committees are called upon to pay the travelling expenses of the soloists and lecturer and an additional sum of $25, covering the fees of the two soloists.

SAMUEL ERNEST WHITNALL, M.A., M.D., B.Ch., M.R.C.S., L.R.C.P., Robert Reford Professor of Anatomy.

1. Identification by Finger Prints (Illustrated).
2. Evolution of the Human Brain (Illustrated).

W. D. WOODHEAD, Ph.D., Professor of Classics.

1. The Island of Crete (Illustrated).
2. Delphi and Olympia, Two Famous Sites in Greek History (Illustrated).
3. A Glimpse of Greece (Illustrated).
4. Greek Tragic Drama.
5. Greek Comic Drama.
6. Women in Greek Life and Literature.
7. Plato as a Literary Artist.

II. ILLUSTRATED LECTURES

The University is prepared to supply sets of slides accompanied by written lectures to teachers and others who may wish to deliver illustrated addresses.

The lectures are all up-to-date, most of them are new.

Lecturers wishing to make use of this service are requested to give notice as early as possible. It is advisable for them to obtain the slides and addresses at least three days in advance of the lecture date in order to familiarize themselves with the material. The addresses may be used either verbatim or as a guide; lecturers are under no obligation to deliver them as written.

Application is to be made on the printed form supplied with this announcement, and especial attention is directed to the rules and undertaking forming part of the application.

Series A—Canadian Geography and Economics

A 1. Canada Coast to Coast.*
A 2. Across Canada by Rail.
A 3. Canadian Scenery and Recreation.*
A 4. The St. Lawrence River.
A 5. Scenery of the Rockies and the West Coast.
A 6. The Province of Alberta.*
A 7. The Province of Saskatchewan.*
A 8. The New Northwest and the Arctic Islands.
A 9. The Pulp and Paper Industry of Canada.*
A 10. Canada's Agricultural Lands and Agricultural Development.*
A 11. The Newer Commercial Canada.*
A 12. Quebec.
A 13. Canadian History, in 8 parts:

- Pt. 1. Indians and early life.
- Pt. 2. Early explorers.
- Pt. 3. The coming of the French.
- Pt. 4. The coming of the British.
- Pt. 5. The struggle for supremacy.
- Pt. 6. The U.E. Loyalists and the War of 1812.

* By courtesy of the Natural Resources Intelligence Service, Dominion Government.

Pt. 7. From the War of 1812 to the Mackenzie Rebellion.
Pt. 8. From 1837 to the present time.

Series B—Travel

B 1. Paris.
B 2. Italy.
B 3. Devon and Dartmoor.
B 4. The British Empire.
B 5. Africa.
B 6. Egypt.
B 7. India, in 3 parts:
Pt. 1. From Calcutta to Benares.
Pt. 2. From Benares to Agra.
Pt. 3. From Delhi to Bombay.
B 8. Bermuda.
B 9. Mesopotamia, in 3 parts:
Pt. 1. From the Persian Gulf to the junction of the rivers.
Pt. 2. From the Garden of Eden to Babylon.
Pt. 3. From Kut to Samara.
B 10. Nassau.
B 11. Jamaica.

Series C—Science

C 1. The Story of the Great Lakes. (Geology)
C 2. Mosquitos. (Entomology)
C 3. Astronomy, in 4 parts:

Series D—Natural History

D 1. Birds of North America.
D 2. Landscape gardening
D 3. Perennial Borders.
D 4. Bulb Plants.
D 5. Roses.
D 6. Canadian Animals.

Series E—Religious Study

E 1. Life of St. Paul.
E 2. The Bible.

MACDONALD COLLEGE

FOUNDATION AND PURPOSE

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by the late Sir William C. Macdonald for the following among other purposes:—

(1) The advancement of education; the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interests and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect education in schools in rural districts.

SITUATION AND EXTENT

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, Que., twenty miles west of Montreal. The main lines of the Canadian National and of the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn and recreation fields for students of both sexes; (2) the experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticulture and poultry departments; and (4) the stock farm.

THE GENERAL ORGANIZATION

The College is divided into three schools:—

(1) **The School of Agriculture,** which aims to provide a theoretical and practical training in the several branches of agriculture.

(2) **The School for Teachers,** which offers a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science,** which gives young women such training as will make for the improvement and greater enjoyment of home life and instruction in professional work in household and institutional superintendence and management.

ENTRANCE REQUIREMENTS

School of Agriculture.

See page 81 and the following.

School for Teachers.

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

School of Household Science.

All candidates for admission:—

1. (a) To the homemaker course, must have entered their eighteenth year and completed grade VII. of the Province of Quebec, or its equivalent.

   (b) To the institution administration course, must have entered their twenty-first year, completed grade XI. (school leaving) of the Province of Quebec, or its equivalent, and have had some previous experience in housekeeping (*e.g.,* assisting with the housekeeping in their own homes).

   (c) To the short courses, must have entered their eighteenth year, be able to read and write the English language acceptably and be proficient in the use of elementary mathematics.

2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE (B.S.A.)

The regular course of study for this degree is given in the Announcement of the College.

DEGREE IN HOUSEHOLD SCIENCE

The full course for this degree is given at Macdonald College, but the First Year may be taken elsewhere. Full particulars are given in the Macdonald College Announcement.

DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE

(B.Sc. in Agr.)

Students who take the first two years of the B.A. course or of the B.Sc. course in Arts, and afterwards complete their Third and Fourth Years in the Faculty of Agriculture, with certain subjects compulsory in both Faculties, will obtain the degree of Bachelor of Science in Agriculture. In the former case they can also qualify for a High School Diploma for the Province of Quebec if they have passed in the subjects required by the Department of Education. (See page 159.)

HIGHER DEGREES

Post-graduate work may be taken at Macdonald College. The degrees offered are M.S.A. and Ph.D. These courses are set forth in the Announcement of the Faculty of Graduate Studies and Research.

See pages 466, 469, 473, 478 and 490.

PROVINCIAL GOVERNMENT GRANTS TO STUDENTS FROM THE PROVINCE OF QUEBEC

(1) *School of Agriculture*

The Department of Agriculture of the Province of Quebec grants to each student who belongs to the Province of Quebec $9.00 per month of attendance employed in studying according to the time-table in the School of Agriculture, Macdonald College. This amount will be placed to the credit of such students by the College Bursar and will be applied on account of board and lodging.

(2) *School of Household Science*

The Provincial Government grants bursaries of $20.00 to $50.00 each to Quebec students from the farming community in the junior and senior years of the School of Household Science.

COLLEGE ANNOUNCEMENT

Full details as to the course, etc., will be found in the Announcement of Macdonald College, which will be sent on application to the Registrar, Macdonald College, Que.

DEPARTMENT OF PHYSICAL EDUCATION

FOR MEN

All students on entering the University and all students of the First and Second years are required to pass a physical examination. By such examination, any physical defect or weakness may be discovered early, and the student will be advised in regard to treatment. For those defects amenable to treatment by exercise or other hygienic measures, individual attention will be given, and the student will be advised as to what forms of exercise will be likey to prove beneficial or harmful.

I. GENERAL

The aim of the University requirements in physical education is the maintenance and improvement of the physical well-being of the student body, and the production of graduates who are physically as well as mentally fitted for their life-work.

As voluntary exercise is of greater value than compulsory, great latitude is given the individual student in his choice of the type of activity.

The chief factors limiting this choice are:—

1. The suitability of the exercise as a means of physical education.
2. The physical fitness of the individual student to take the form of exercise chosen.
3. The possibility of effective supervision.
4. The practicability of ensuring regular participation.

The aim is not to replace the existing forms of University athletics, but to assist in developing an interest in these by every legitimate means.

II. REGISTRATION

1. At the time of registration every male student of the first three years in the Faculties of Arts, Medicine, Dentistry and Science and of the first two years in the Faculty of Law shall be given a printed announcement of the University requirements in physical education.* This announcement shall include a list of the recognized forms of physical activities in which a student may take part in fulfilment of the requirements, and a statement that at the time of his medical examination he will be expected to indicate his choice of the particular forms which he wishes to follow.

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* NOTE.—Owing to lack of accommodation these requirements are suspended for the Session 1930-31.

2. At the time of his medical examination, each student shall be required to fill in a card indicating his choice, as outlined in paragraph III. 1. The Director shall then decide as to his physical fitness for the form chosen and shall inform the student of his decision and note the same on his card, which shall be filed for reference.

3. Every student shall be categorized by the University Medical Officer as either:—

(A) Fit for all forms of physical exercise.

(B) Fit for a limited number of forms.

(C) Fit for gymnasium work only.

(D) Fit for remedial gymnastics, or temporarily unfit.

(E) Unfit for any forms of physical exercise.

III. EQUIVALENTS

1. Subject to paragraphs 2 and 3, the following activities are recognized as fulfilling the requirements:—University basketball, boxing, wrestling and fencing, English rugby, golf, gymnastic classes, harriers, hockey, indoor baseball, rugby, ski-ing and snowshoeing, soccer, swimming and water polo, tennis, track and field teams, the McGill C.O.T.C., and such other activities as shall be decided upon from time to time by the Committee on Physical Education.

2. Subject to the approval of the Director, as laid down in paragraph II, 2, any student who desires to participate in competitive athletics, as mentioned in paragraph III, 1, may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

3. If successful in making a place on the team, he shall be excused from any other forms of exercise for the season of play, and may be excused for the remainder of the term at the discretion of the Director.

4. Any student who has been placed in Categories A, B, C, or D at his University medical examination, and who does not voluntarily take part in any of the other recognized forms of exercise as provided above, shall be required to attend the regular gymnasium classes appropriate to his category.

IV. ATTENDANCE

1. The amount of time required to be devoted to physical exercise by each student shall be two hours per week throughout the session. Until such time as the University is in possession of its own gymna-

sium, however, this amount of time may be reduced by the Committee on Physical Education to meet the exigencies of gymnasium accommodation.

2. A record will be kept of the attendance of every student as far as his required physical work is concerned.

3. Medical certificates covering absences which are accepted by the Dean of the Faculty concerned will be accepted by the Department, but if the student is able to attend lectures the question of his fitness to take part in physical exercise shall rest entirely with the Director and the University Medical Officer. Medical certificates covering absences from the University must be presented to the University Medical Officer by the student within one week after his return to University work.

4. Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

5. Excuses will be granted for absences due to participation in Intercollegiate Athletics as follows:—

(a) For all fixtures under the jurisdiction of the C.I.A.U.

(b) For a maximum of one fixture for each sport not under the jurisdiction of the C.I.A.U. This fixture must be specially approved by the Athletic Board, the names of proposed players being submitted to the Faculty previous to the game. The Faculties concerned may not approve of granting excuses from lectures to any whose academic standing does not warrant such an excuse.

In order to secure exemption from attendance on the above grounds Managers must fill out and certify to the facts on the special forms provided for this purpose and deposit them within seven days at the office of the Department of Physical Education.

6. At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

7. No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

8. Not less than one month before the conferring of degrees in each session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

V. EXEMPTION

Claims for exemption from the above requirements shall be made in the first instance to the Director, who shall refer them to a sub-committee on exemptions appointed by the Committee on Physical Education.

VI. COLLEGE GROUNDS AND ATHLETICS

The management of the College grounds, all Physical Education, including athletics and sports, is under the control of the Standing Committee on Physical Education. This Committee is responsible for the general maintenance of all University grounds, and retains the ultimate authority and power of supervision in all matters affecting athletics in the University. All matters which may in any way affect athletics must be referred to the Athletic Board, and its approval must be obtained before any departure is made from the authorized routine. The Athletic Board reports to the Committee on Physical Education.

The Athletic Board is responsible for the organization, administration and supervision of the entire athletic programme. The composition of the Board is as follows:—The Principal of the University, Chairman, the Bursar, three members of the teaching staff, three graduates, one of the Stadium guarantors and three undergraduates. Intra-mural and Intercollegiate competitions are conducted in the following sports:—Basketball, Boxing, Wrestling and Fencing, English Rugby, Golf, Gymnastics, Harriers, Hockey, Indoor Baseball, Rugby, Ski-ing and Snow-shoeing, Soccer, Swimming and Water Polo, Tennis, Track and Field.

All students of all years must, during the current session and prior to participation in competitive athletics or otherwise engaging in athletic practice or competition, have passed the University medical examination and have received an appropriate category. Those students taking part in Intercollegiate competition must first complete a C.I.A.U. eligibility form for each sport.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

The managers, coaches and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Board. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

During the session and including the Christmas holidays, *all teams and individual students desiring to participate in "outside athletics"** must first apply in writing through the Manager or Coach of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examinations, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

All students of the University are required to pay a fee of ten dollars ($10.00) for athletics and the use of grounds (this is included in the general fee of $17.00 paid by undergraduates). The amount so paid is credited to the Athletic Board, and is by this body expended in the interest of College athletics, under the general direction of the Committee on Physical Education. A book of general admission tickets for all home games is furnished to students who pay this fee.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee on Physical Education, for expenditure in the interest of women students.

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* Outside athletics is interpreted to mean those forms of athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

VII. HEALTH

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation, when requisitioned for by the Department, is provided without cost to the student, for seven days only.

A special leaflet concerning this service and the general work of the Department will be supplied to all students at the opening of the session.

VIII. MEDALS

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the Corporation of the University. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

IX. STRATHCONA CERTIFICATE COURSE

The Departments of Education and Physical Education offer the following courses for men undergraduates of the Fourth Year:—

A course of forty-five hours on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust.

FOR WOMEN

(ROYAL VICTORIA COLLEGE)

Classes in educational gymnastics for all undergraduates of the College and for resident students of music are conducted in the gymnasium of the Royal Victoria College. All students on entering the University are required to pass a physical examination (see regulation on page 633) and are required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organized by the Department, whether educational, remedial or recreational.

Work in the Physical Education Department throughout the four-year course (amounting to 140 hours in all) is required of all undergraduate students in the Faculties of Arts and Music. These periods

will be used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual.* No student will be asked to do work unsuited to her physique, and students debarred from exercise of any kind will be dealt with separately and carefully advised. Every student is required to wear the costume recommended by the Department.

Classes in Physical Education required of women students in other faculties than the Faculty of Arts are also held in the gymnasium of the Royal Victoria College.

Partial students are admitted to the classes in educational and recreative gymnastics on payment of a fee of $5.00.

Reports of attendance in physical education will be regularly sent to the Faculty.

Strathcona Prizes.—Three first prizes valued at $8, $10 and $12, and three second prizes valued at $5, $6 and $9, are open to students of the Royal Victoria College, for competition in the Second, Third and Fourth Years respectively. Two prizes of $5 are offered for competition to the students of the First Year; one for students who have taken part in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions will be held under the following regulations:—

1. Competitors will be awarded 50 per cent of the marks on the work of the session.

2. No prize shall be awarded unless the judges consider the work up to the standard of 75 per cent.

3. The prizes shall not be awarded in the Second, Third and Fourth Years should the winner fail to obtain her full academic standing. The prizes in the First Year shall not be awarded if the winners fail in more than one subject at the sessional examinations.

4. Competitors will be judged on the work taught in the Physical Education Department during the session, the Physical Director for Women arranging all details concerning the competition. A programme of the competitions will be posted not later than March 1st.

5. Judges for these competitions shall be appointed yearly by the Committee on Physical Education.

STRATHCONA CERTIFICATE COURSE

A course similar to that anounced on page 638 is given for the women undergraduates of the Fourth Year.

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* In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department.

MILITARY TRAINING

Canadian Officers' Training Corps

Honorary Colonel:—General Sir A. W. Currie, G.C.M.G., K.C.B., LL.D.

Officer in Command:—Major J. W. Jeakins, B.A.

In order to train undergraduates that they may become men fitted to hold His Majesty's Commissions, a contingent of the Canadian Officers' Training Corps was organized at McGill University two years before the Great War. The contingent is a unit of the Active Militia, being governed by special regulations, under which it cannot be called out for active service as a unit.

The training is intended to bring the largest possible number of students up to the standard required for the two certificates:—A, a Lieutenant's, and B, a Captain's. The value of these certificates lies in their showing that the candidates have satisfied a board of regular officers at practical examinations that they have developed properly their powers of command, know how to give orders to other men, can retain their self-possession, and can act promptly on their own initiative in a sudden emergency; and further that they have passed the written examinations, in which they must show a thorough knowledge of topography, how to organize and look after the welfare of men under their command, etc. If a member is recommended for a commission in the Active Militia of Canada, or the corresponding military force in any other part of the Empire, the possession of one of these certificates entitles him to promotion to the rank denoted, as soon as there is a vacancy.

To obtain a Certificate A (Lieutenant's) a member must complete one year's efficient service in the corps, and in the case of Certificate B (Captain's) two years' efficient service, and pass the practical and written examinations, which are held under the auspices of the Imperial and Dominion Government conjointly, for the whole Empire at the same time. The written papers are set and corrected by military experts in London, England.

To be efficient in a given year (1st August to 1st July), a member must have attended forty parades if in his first year of service, or twenty-five parades if in a subsequent year, and must have completed his prescribed course of musketry. The time required is about two hours per week each session, and rifle practice is encouraged.

THE UNIVERSITY LIBRARY

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts, elected by the Faculty; two representatives of the Faculty of Applied Science (one of whom being a member of some special Science Library Committee will look after the interests of these libraries on the committee); one representative of each of the Faculties of Law, Medicine, Dentistry, and Graduate Studies, elected by their respective Faculties; the Dean of the Faculty of Medicine (or the Secretary of the Faculty); the Honorary Librarian of the Medical Library; one representative of the Royal Victoria College, one from the Library School, and four other members appointed by Corporation.

The several libraries of the University now contain over 350,000 volumes and 40,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,200 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana. The nucleus of the latter is formed by the choice library of the late Mr. Frederick Griffin, which he bequeathed to the University about forty years ago. It has been growing ever since, and includes, at the present time, besides numerous manuscripts, an interesting collection of Canadian portraits and autographs, recently increased by a gift from Mr. George Iles. The Canadiana have been further enriched by the recent gift of over 270 volumes and 50 pamphlets from the library of the late Mr. William McLennan, presented in memory of him by his children. The library now has an extensive collection of bookplates in process of being classified and mounted.

The Redpath Historical Collection was begun by the late Mr. Peter Redpath soon after he became a Governor of the University. It received substantial yearly additions from him up to the year of his death, after which it was steadily augmented by his widow during the remainder of her life. It is now large and valuable, and affords excellent opportunities for the study of history. Its most striking feature—a series of political, religious and social tracts, for which the first selections were made by the late Professor Henry Morley—was greatly enriched by the late Mrs. Redpath and now comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.

A special Architectural collection, known as the "Blackader Library of Architecture," has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill), who was wounded near Ypres on June 2nd, 1916, and died in London on August 20th of the same year.

"The Emma Shearer Wood Library of Ornithology" was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library rich in periodical and pamphlet material, for use by all who are interested in birds.

"The Blacker Library of Zoology" has been presented by Robert Roe Blacker and Nellie Canfield Blacker, as a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals. It is supplemented by the Lyman Collection of books on Entomology.

These three collections are now housed in the recently completed addition to the library and are provided in each case with a reading-room adjacent to the new steel stacks which are devoted to these special libraries.

Students and investigators have the privilege of using the resources of the Gest Chinese Research Library, which contains, in addition to works in English and European languages, a Chinese collection of 90,000 ts'ê, bound in t'ao, on all subjects, including an unusually large number of early rare Buddhist and imperial editions, among them a copy of the original edition of the great Chinese encyclopædia, T'u Shu Chi Ch'êng, of which the only other complete copy in the western world is in the British Museum.

The Faculties of Medicine (including the Bibliotheca Osteriana), Law and the Royal Victoria College, maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics, and Botany.

The Barnes Collection of books on Physics is shelved with the Departmental Library in the Physics Building. The School of Commerce, the School for Graduate Nurses and the Department of Social Service are beginning to make collections of books on their special subjects.

Founded in 1900, as a memorial to the late Mr. Hugh McLennan from his children, the Travelling Libraries of McGill University were endowed in 1911 by their founders. These libraries contain, each, from thirty to forty carefully selected volumes and are sent, on application, and on payment of a nominal fee of $4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Regulations and full particulars may be obtained from the Librarian of the University. Provision has also been made to supply

books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

Although the Library is maintained primarily for members of the University, the Corporation has provided for admission, upon certain conditions, of such persons as may be approved by the Library Committee. It is the desire of the Committee to make the Library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

The Library serves also as a general reference library for Montreal and has been of service in this capacity to institutions, learned societies, business houses, railways, corporations, and industrial societies. It also has a system of inter-library loans by which it sends books to other libraries and obtains for the teaching staff works not available here.

With the Library are affiliated the McGill College Book Club and the University Book Club, which supply their members with standard, important and recent publications and make a substantial annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts, and numerous temporary exhibits are shown in the Gallery of the Reading Room.

LIBRARY REGULATIONS

(Redpath Library Building)

The following regulations of the Library Committee should be observed:—

1. All students of all Faculties, Schools and Departments who have paid their fees are entitled to read in the Library and may borrow books (subject to the regulations) to the number of three volumes at one time.

2. The University Library is closed on Sundays and on certain other holidays, as noted in the Calendar. With a few exceptions, which are posted in the Library at the appropriate time, it is open as follows:—

Months Days	October to May	June and September	July and August
Monday to Friday	9 a.m. to 9.30 p.m.	9 a.m. to 6 p.m.	9 a.m. to 5 p.m.
Saturday	9 a.m. to 5 p.m.	9 a.m. to 5 p.m.	closed

3. *All students who wish to use the Library must apply at the Delivery Desk and fill in their signature and address on a Borrower's Register Card.* Any subsequent change of address must be reported.

4. Graduates in any of the Faculties, other than those registered in the School of Graduate Studies, on making a deposit of $5, are entitled to the use of the Library, subject to the same rules and conditions as students.

5. Books may be taken from the Library only after they have been charged at the Delivery Desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

6. Books shelved in the reading rooms must not be taken from the rooms to which they have been assigned; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

7. Before leaving the Library, readers must return to the attendant at the Delivery Desk books which they have drawn from the stack for use in the reading room.

8. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

9. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any person found guilty of wilfully damaging any book in any way shall be excluded from the Library and shall be debarred from the use thereof for such time as the Library Committee may determine.

10. Damage to or loss of any books, maps, or plates, and injury of library fixtures, must be made good to the satisfaction of the Librarian and the Library Committee. Damage, loss, or injury, when the responsibility cannot be traced, will be made good out of the caution money deposited by the students with the Bursar. Readers are reminded that under the provisions of the Canadian Criminal Code any wilful damage to property constitutes a criminal offence for which severe penalties can be inflicted. Minor damages render the offender liable to a fine of $20.00, and he is also bound to compensate the owner up to a limit of $20.00. Refusal to pay these sums is punished with imprisonment up to two months (Sections 539-540). More serious damage may involve a term of imprisonment up to two years (Section 510-E).

11. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card and requested to return the book. If the time has not been extended or the book returned,

after a further delay of at most three days, the book may be sent for by special messenger, at the borrower's expense, or may be replaced and paid for, in the case of a student, out of the caution money of such student; in the case of graduates or other borrowers, out of their library deposits. *A fine of five cents for ordinary books and of twenty-five cents for reference books is imposed for each day that a book is overdue.*

12. Before the close of each session, students and members of the Teaching Staff must return uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

13. Silence must be strictly observed in the Library.

14. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

FIRST YEAR OF THE FACULTY OF ARTS

Owing to the limited seating capacity of the Redpath Reading Room, the ordinary library needs of the students of the First Year are provided for in the Arts Building for men, and in the Royal Victoria College for women.

LIBRARY FEES

The Library fee for undergraduate students in the Faculties of Arts, Applied Science and Law is included in the University fees. The fee for partial students is $4.00. Graduates and students attending extension courses using the University Library must make a deposit of $5.00 at the Bursar's Office. The fee for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room upon proper introduction and should apply to the Library Committee, through the Librarian, for permission to take books from the building.

UNIVERSITY BUILDINGS

THE ARTS BUILDING

This building stands at the head of the Avenue and is three storeys in height. It contains two large and twelve average-sized class-rooms, the largest capable of seating 180 students, as well as numerous conference rooms, professors' offices and a Psychological laboratory and research room.

The men's and women's lounge rooms and the reading room are on the first floor, where are also to be found the office of the Dean, the Faculty Room and the Professors' common room for men (that for the women Professors is on the second floor).

During the spring and summer of 1926 the old Arts Bulding and Molson Hall were transformed into this splendidly equipped modern building, the only part of the old building remaining being the front wall. The main feature of the building is the Moyse Hall the cost of which was provided for mainly by a donation from Lord Atholstan in memory of the late Charles E. Moyse, Professor of English Language and Literature for many years. It is fitted for lectures and plays with the necessary dressing rooms and stage fixtures and is especially used in connection with the English classes. The hall is capable of seating 500 people and is beautifully decorated, as is also the large vestibule with its four immense black marble pilars. The style of decoration in the vestibule follows that in the Moyse Hall.

THE CONSERVATORIUM OF MUSIC

The Conservatorium of Music is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds. On the ground floor are the offices of the Director and of the Secretary, the library and a concert hall where recitals by the staff and students are given during the session and where orchestral and choral practices are held (the more important concerts take place in the large assembly hall of the Royal Victoria College). The second and third floors contain a number of studios, where lessons are given by the various members of the staff, as well as a room for lectures in theory and history of music, sight-singing, etc. In the basement are several pracice rooms.

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of the Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical journals), the Osler Library, the Department of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its Dissecting Room with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184′ x 36′—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these Departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

The Department of Botany, in addition to its laboratories, has three glass houses—60′ x 18′—adjacent to the Building, and provides living material for the work in General Biology and General Physiology.

The Department of Physiology, with its large and well-equipped teaching laboratories, each accommodating 96 students, is provided not only with motor-driven recording drums for each pair of students, but has also 16 fixed tables equipped with all the necessary apparatus for practical experiments in Physiology which each student must undertake for himself. Other rooms provide for advanced practical instruction and research. This Department is admirably equipped with an excellent workshop, animal quarters, operating and sterilizing rooms, string-galvanometer room, histology rooms, including dark rooms, and the usual space for demonstration. The frog and turtle tanks are in the Basement, and a two-storey house for mammals is adjacent.

The Biochemistry Laboratory on the Third Floor is of the most modern type, and has abundant accommodation for research workers. An extension of this floor is already required to fulfil the needs of Physical Chemistry and the added interest of metabolic studies.

The Department of Pharmacology occupies the Top Floor, and is equally well-equipped.

THE PATHOLOGICAL INSTITUTE

The Pathological Institute houses the Department of Pathology, Bacteriology and Medical Jurisprudence. This building, over 200 feet long and from 60 to 90 feet wide, faces the Royal Victoria Hospital, with which it is connected by a tunnel. It is of steel and stone construction in harmony with the architecture of the Royal Victoria Hospital and consists of a high basement containing mortuary for twelve

bodies, shops, students' rooms, offices, and machinery rooms. The first floor is given over to Pathology and Medical Jurisprudence (autopsy theatre, lecture room, museum, demonstration rooms, several small laboratories, library and photography).

The second floor has the chemical, histological, experimental, animal and other research laboratories. The third floor is set apart for students' and research laboratories in Bacteriology. With the main building is connected by an archway a small cottage with living quarters for the technical help and for animal rooms. The building contains throughout all floors a refrigerating system (ammonia plant), hot and cold water, live steam and air exhausts, and a special forced ventilating system. The large students' histology laboratory, accommodating 120 students, is built on a rising tier system of student benches, and the whole north-east wall is practically of thick glass.

THE MACDONALD ENGINEERING BUILDING

This building is designed to provide accommodation for six hundred students. The ground floor is given up to the civil engineering, geodetic, electrical and mechanical engineering laboratories, and is for the most part 23 feet in height. Mechanical and electrical engineering laboratories and the workshops also occupy the three lower floors of the Workman Building. The centre portion of the second floor is used for purposes of administration (faculty rooms, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 700 seats, while the upper floors, both of the Engineering Building and the Workman Building, are devoted to drafting rooms, containing over 500 tables. The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It was erected in 1909 at a cost of about half a million dollars.

THE MACDONALD CHEMISTRY AND MINING BUILDING

In addition to the large lecture theatre, which seats about 250 students, there are four lecture rooms for small classes and a number of offices. There are also three large general clinical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

THE MACDONALD PHYSICS BUILDING

The building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work and two large laboratories arranged for research provided with solid piers and the usual standard instruments. There are also a lecture room for mathematical physics, a special physical library and convenient workshops.

THE UNIVERSITY LIBRARY

This building, which is a fine example of the Romanesque style of architecture, was erected in 1892 by Mr. Peter Redpath, a Governor of the University, and was enlarged in 1900 and again in 1922. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stacks, four and five storeys in height, have a working capacity of 150,000 volumes.

THE OBSERVATORY

The Observatory is equipped for instruction in the use of meteorological instruments and in astronomical work. It is the Montreal station of the Meteorological Service of Canada. Time signals are given to the city, the railways and the shipping.

THE POWER STATION

The new Power Station supplies heat to the following buildings: New Medical Building, Biological Building, Engineering and Workman Buildings, Chemistry and Mining Building, the Physics Building and the Arts Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall. The equipment of the station includes boilers of 1,000 H.P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons. The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700 feet from the station. Electric cables are placed underground in vitrified clay conduits.

THE REDPATH MUSEUM

The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collection, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are fully and admirably arranged for teaching purposes.

THE ROYAL VICTORIA COLLEGE

This is a residential college for the women students of McGill University. It is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. On the ground floor are the offices of the administration, lecture rooms, students' common room, and a spacious dining hall. A gymnasium is fitted up in the basement. On the first floor are other lecture rooms, the library, reading room and a handsome assembly hall. The second and third floors are given up entirely to rooms for resident students. These rooms are handsomely furnished, as indeed is the whole building.

STRATHCONA HALL

Strathcona Hall is the home of the Student Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

THE UNION

The McGill Union stands at the corner of Sherbrooke and Victoria Streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and a library, a study and a lounging gallery (8 ft. by 21 ft.) The large hall is situated in the top storey. It measures 88 ft. by 45 ft. and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for students of all faculties. It is intended to promote a broad and true university spirit.

MUSEUMS

ARCHITECTURAL MUSEUM

The Museum of the Department of Architecture contains a representative collection of historic casts illustrating the development of architectural ornament and form, and the technique of architectural material. Many of the casts have been specially prepared for the Department. The group of English mediæval art is unique in any University on this continent. The collection of metal work includes examples of iron, brass, copper and jewellery, and is arranged so as to exhibit the technical possibilities of the material.

BOTANICAL MUSEUM

In the library and museum room of the Department of Botany, on the ground floor of the Biological Building, is arranged a small teaching collection of 50,000 specimens of Canadian and exotic plants, and collections illustrating structural and economic botany.

MUSEUM OF HYGIENE

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles.

In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus of all kinds, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes, and illustrative of the principles involved.

3. *Water.*—Showing conditions connected with pollution of water supplies, whether derived from the surface or underground sources; methods of purification on large and small scales; water pipes, etc., and the influence which these fittings may exert upon the water contained therein.

4. *Soils and Building.*—Building sites, various kinds of soils; relation between soil and dampness; permeability of soils to gases and water; composition of soils; effects of ground moisture on dwellings; measures to be taken against dampness and foul air; and building materials of all kinds.

5. *Air.*—Including ventilation schemes and appliances; climate and meteorology, with apparatus illustrative of each class.

6. *Foodstuffs.*—Adulteration and sophistication practised; samples of unsound foodstuffs.

7. *Bacteriological and Pathological.*—Specimens of diseased meats; specimens and slides of all the common micro-organisms, pathogenic and non-pathogenic.

8. *Clothing.*—Specimens of all the materials utilized for the manufacture of clothing, showing the raw state and the various processes through which they pass until the finished product is reached; the hygienic value of these various articles is also set forth.

Injuries and deformities which may directly result from the use of badly designed articles of clothing; history and evolution of clothing.

9. *Drainage and Refuse Disposal.*—This section includes every type of appliance used as sanitary fixtures in buildings; drainage schemes; ultimate disposal of refuse both liquid and solid; refuse destructors, and sewage disposal plants. The section also includes types of faulty methods and appliances which on principle ought to be avoided.

In addition to the regular museum exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstration as hand specimens.

A catalogue with text and full description of all the exhibits contained in the museum is issued by the University authorities, and may be purchased at the general office.

THE MCCORD NATIONAL MUSEUM

This Museum is situated at the corner of Sherbrooke and McTavish Streets. The collection is a gift to the University from the late Mr. David Ross McCord of Montreal, a graduate in Arts of 1863, and in Law of 1867.

The range of the collection is extensive, comprising documents, letters and objects of historic interest to Canada, from the earliest settlement of the white man, besides numerous valuable letters, autographs and engravings relating to the history of Europe.

There is a comprehensive collection of Indian material illustrating the customs and habits of the various Indian and Eskimo tribes from the Atlantic to the Pacific Ocean.

There is a special collection of material relating to General James Wolfe and the conquest of Quebec in 1759. The French régime in Canada is well represented by portraits and letters.

There are also many objects of interest relating to characters and events of more recent Canadian and American history.

The Museum is open to the public without admission fee from 2 to 5 p.m. on weekdays, and from 2.30 to 5 p.m. on Sundays and holidays, with the exception of Christmas and New Year's Day.

Classes from the schools may come any afternoon or, if more practicable, by special arrangement, in the morning.

PATHOLOGICAL MUSEUM

On the ground floor of the Pathological Institute is the Pathological Museum which includes the teaching material for this department. Material for the hospital ward clinics is also prepared from this collection.

PETER REDPATH MUSEUM

On the lower floor are the geological lecture theatre, with collection of lantern slides; a class room, a chart room and offices for the staff. In the hall are the aquarium and special exhibits.

The Lyman Entomological Room is also on this floor, housing the extensive collections of North American insects of all orders, as well as the library of Entomological works, which includes many extremely rare and valuable books and complete sets of periodicals.

On the first floor is the great museum hall, on each side of which are alcoves with upright and table cases containing the collection in palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history. The same systematic grouping can be seen in the ten flat cases containing the collection of fossil plants arranged around the centre of the hall. In the centre are the large casts of extinct mammals, comprising the Sir William Logan Memorial Collection.

At the extreme end of the hall are placed the collections of minerals, arranged in such a manner as to facilitate their systematic study. Nearby, in the centre of the hall, are economic collections and models illustrating land forms.

In the upper gallery of the great hall are placed the zoological collections, which have been mainly acquired by occasional donations during the last fifty years, partly also by purchase and partly by accessions from the former Natural History Society of Montreal. More accommodation is now required in order to exhibit the specimens to better advantage. The *Philip Carpenter Collection* of shells is especially noteworthy for its arrangement and completeness.

Papers and memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator, Mr. S. Chambers. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors of Geology and Zoology or from the Registrar of the University.

STRATHCONA MUSEUM

Ground Floor: Ethnological Collection.

On the ground floor is arranged:—

1. Ethnological Collection, including Dr. G. M. Dawson's Indian Collection of materials from the Queen Charlotte Islands.
2. The Todd Collection of Canadian Indian material.
3. The Todd Ethnographical Collection from West Africa.
4. Ethnological Collection from the Montreal Natural History Society.

Also much other material presented to the University extending over a period of fifty years.

Second Floor: Central Medical Museum.

There are 2,519 mounted specimens on the shelves, and 1,249 unmounted specimens in a carefully labelled and classified storage, readily available for clinical teaching. A descriptive catalogue is in process of preparation.

In addition, there is a valuable historical collection, including some 150 of Osler's original specimens collected and prepared by himself while at McGill University, and also the collection of the Canadian Army Medical Museum.

Third Floor: Anatomical Collection.

The Anatomical Museum is designed primarily as a teaching museum to be used in conjunction with the didactic and practical instruction given in the Department of Anatomy. It now contains several thousand preparations and models arranged to illustrate general embryology; human embryology and organogenesis; the theory of human evolution; the prehistoric races of mankind; physical anthropology; comparative osteology; general comparative anatomy and the details of human structure, regional, systematic and topographical.

In addition to the material which is exhibited in the museum cases several hundred wet preparations are kept in storage and are used as teaching specimens in the class and dissecting rooms.

Special collections illustrating the anatomy of regions and organs have been formed and are being continually augmented. These are available not only for undergraduate teaching, but also for use by interested graduates.

A collection of over two thousand lantern slides and several hundred stereoscopic photographs is maintained.

LABORATORIES

CEMENT LABORATORY

The laboratory is equipped for making complete tests on the strength and properties of cements, mortars, concrete, concrete beams, etc., and includes the following:—Tensile testing machines, hydraulic compression machine (50-ton), specific gravity apparatus, sieves for fineness tests, steaming apparatus, Vicat's and Gilmore's needles, metal moulds, mixers, rammers, balances, etc. Tanks are provided for the storage of briquettes and other test specimens and the equipment is supplemented by that of the Strength of Materials Laboratory in making tests on large-sized specimens.

CHEMICAL LABORATORIES

Four large laboratories are provided for undergraduate instruction in elementary, analytical, organic, physical and colloid chemistry, with accommodation for about three hundred students.

These laboratories are particularly well lighted and have ample hood space.

Balance rooms, well equipped, are connected with each of the main laboratories.

The laboratories are provided where necessary with electricity, water and gas, and possess a good supply of apparatus for experimental work of a very varied character.

Smaller laboratories for special work are also available.

In the building are also laboratories for those undertaking research work in organic, inorganic, physical and colloid chemistry, as well as a number of smaller research rooms for one or two students each.

In the Biological Building a large laboratory for elementary teaching with facilities for about three hundred students, as well as research rooms for about a dozen students, belongs to the Chemistry Department.

The newly constructed building of the Pulp and Paper Research Institute provides some of the most modern laboratories on this continent for research in cellulose chemistry. Associated with McGill University in this building are also the Canadian Pulp and Paper Association and the Pulp and Paper Division of the Forest Products Laboratories of Canada.

ELECTRICAL LABORATORIES

The Senior Laboratory is designed primarily for the study of alternating current phenomena and is equipped with motor-driven alternators of various types, giving a frequency range of from 25 to 360

cycles per sec.; single and polyphase induction motors of the squirrel cage and wound rotor types; single phase series and repulsion motors; constant voltage and constant current transformers; mercury arc rectifier, rotary converters, potential regulators; meters for the measurement of current, voltage, power frequency, power factor, maximum demand and wave form; relays, rheostats, circuit breakers, static condensers, reactance coils, synchroscopes and other auxiliary apparatus. A travelling crane spans the laboratory and gives facilities for the rearrangement of the machines.

The above laboratory is also used by the Third Year electrical students for the study of current flow in circuits and of direct current machinery.

The Junior Electrical Laboratory on the third floor of the Electrical Engineering Building is used by the students of other departments who are taking an elementary electrical course, for the study of both direct and alternating current phenomena. The laboratory is equipped with shunt, compound and series wound direct current generators and motors of different types; constant current generators; arc and incandescent lamps; meters for the measurement of current, voltage and power; rheostats, circuit breakers, starters and other auxiliary apparatus. Several alternators, transformers, rotary converters and induction motors along with the necessary instruments and control apparatus are provided for use by the students taking the general elementary course. A hand-operated travelling crane gives facility for the rearrangement of the machines.

The Electrical Measurements Laboratory on the fourth floor of the Electrical Engineering Building is equipped with apparatus for precision measurements of electrical quantities of all kinds.

This laboratory is used by the senior electrical engineering students and post-graduate students. It is also used by members of the staff for industrial testing and research. The most common industrial tests performed are:—Conductivity, insulation resistance, ratio and phase angle of current transformers, dielectric strength of transformer oil and other insulating materials, calibration of electrical meters, magnetic testing of iron, temperature coefficients of resistance, capacities of condensers, inductance of coils, light distribution curves of reflectors, and efficiency of transmission of light through globes.

The equipment includes:—a conductivity bridge with controlled temperature oil bath, Wheatstone bridges, standard resistances, Weston Standard Cells, precision potentiometer, Kelvin current and watt balances, Western standard ammeters, voltmeters and wattmeters, frequency meters, current and potential transformers, D'Arsonval galvanometers, vibration galvanometers, thermo galvanometers, dynamometers, wave

meters, potential regulators, phase shifters, thermionic valves, planimeter, precision photometer bar, with universal rotators, motor-driven sector discs and screens, certified standard incandescent lamps, Sharp Millar portable photometer, Burrows parmeameter, and Epstein iron tester, variable mutual inductances and condensers, etc.

The laboratory is supplied with direct currents up to 750 amperes, alternating currents up to 3,000 amperes, direct voltages up to 1,500 volts and alternating voltages up to 200,000 volts. Variable audio-frequency oscillating generators provide power for bridge measurements.

The Communication Engineering Laboratory, on the fourth floor, is equipped with apparatus for building up oscillating, transmitting, detecting and amplifying circuits, and for radio measurements of all kinds. A certain amount of industrial testing and calibrating is carried on by the department, chiefly thermionic valve testing and measurements of inductance and capacity. The laboratory is also being equipped with apparatus for the study of telephone problems; transmission, inductive intereference from power lines, measurements of noise on telephone lines, cross-talk, transpositions, and the use of repeaters, etc.

The High-voltage Laboratory contains the following equipment:— Four 200 to 50,000 volt transformers insulated so as to operate up to 200,000 volts; one 200 to 2,000 volt insulating transformer; one 110 to 20,000 volt testing transformer; standard spark gaps for oil and air; cathode ray tubes, electrostatic voltmeters and other auxiliary equipment. The transformers are provided with auxiliary voltage coils for direct voltage measurement and for connection to the oscillograph. The connections to this laboratory are such that any machine in the department may be used as a source of power and controlled directly from the transformer room, so that a wide range of frequency and of wave form is available for experimental work.

The Oscillograph Laboratory is equipped with a Blondel triple oscillograph, with both visual and photographic attachments, and is specially adapted for the study of transient phenomena.

Power is supplied to the above laboratories from the 220-volt, 3-wire, D.C. generators in the central power-house. The voltage is maintained approximately constant on the two sides of the system by a balancer set located in the Senior Laboratory, which is also equipped for supplying constant voltage circuits of 125 volts.

The department maintains a small machine-shop for instrument and machine repair and for the construction of special experimental apparatus.

GEODETIC LABORATORY

The equipment of this laboratory consists of:—

(1) Linear instruments:—a Rogers comparator and a standard bar for investigating standards of length; a fifty-foot standard and com-

parator for standardizing steel bands, chains, tapes, rods, etc.; Munro-Rogers linear dividing engine.

(2) Circular instruments:—a Rogers circular comparator.

(3) Time:—an astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity:—a portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidence by beats.

(5) A water gauge apparatus for testing aneroid barometers; four level triers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

Astronomical Observatory.—The observatory equipment for the purpose of instruction in practical astronomy consists of:—a Bamberg prismatic transit with zenith attachment; six astronomical transits for meridian observations; two Troughton & Simms zenith telescopes; two 8″ alt-azimuth instruments; sidereal and mean time clocks and chronometers, chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

HIGHWAYS LABORATORY

The Highways Laboratory is equipped for conducting physical and chemical tests of road-building materials, such as asphalts, tars, brick, stone, gravel, sand, etc. Among the more important items of equipment are Deval and Dorry machines; a standard rattler; an impact testing machine for rock; a diamond drill, lap and saw for preparing rock specimens; balances and scales; asphalt ductility machine; penetrometer; screens and screen shaker; extraction apparatus; drying ovens (gas and electric); viscosimeters; flash point testers; specific gravity apparatus, and melting point apparatus. There is also a large assortment of chemical glassware, etc.

Facilities for advanced work are greatly increased by the fact that this laboratory is operated in close connection with the Strength of Materials Laboratory.

HYDRAULIC LABORATORY

In this laboratory the student studies experimentally the laws governing the flow of water through orifices, Venturi meters, pipes, weirs, etc., and carries out experiments on the efficiency of centrifugal pumps and of various forms of water turbines.

The equipment includes:—apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface friction, by valves and diaphragms, and at curves and bends in pipes; Venturi meter for use at different discharges; centrifugal pumps of different types arranged for testing under varied conditions; various water turbines, including Pelton wheel, and reaction wheels of Francis and propeller types; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the stream lines in a perfect fluid, illustrating the flow round obstructions in a channel, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

The water turbines are of the most modern type, and are arranged for testing so that complete characteristic curves can be obtained. Different types of draft tubes can be used, so that a thorough study can be made of the behaviour of various types of runner.

MECHANICAL ENGINEERING LABORATORIES

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, ordinary and water dynamometers, steam calorimeters, thermometers, gauges, pyrometers, coal gas and oil calorimeters, indicators, planimeters, flue gas analysis, etc.

1. Mechanical Laboratory.

The equipment of this laboratory includes:—a Thurston railway pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; standard viscosimeters and other necessary apparatus for the physical testing of lubricants; a high-speed horizontal engine having a cylinder 6 inches diameter, 9 inches stroke, and operated by compressed air; a gas-fired preheater for the above engine; two standard 9½-inch Westinghouse airbrake pumps, fitted for testing and supplying compressed air for experimental and other purposes; a non-rotative Blake steam pump, having steam and water cylinders 4½ and 2¾ inches diameter and 4½ inches stroke; apparatus for measuring the heat loss from pipe coverings and from radiators, on the efficiency of worm and other gearing, for governor testing, for testing fans and blowers.

2. Steam Engine Laboratory.

This laboratory is furnished with an experimental steam engine of 120 I.H.P., specially designed for investigating the behaviour of steam

under varying conditions. The cylinders are 6½ inches, 9 inches, 13 inches. The cylinders can be so connected as to allow of working as a single, compound, triple or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tarks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed. This laboratory also contains the following machinery:—a Robb automatic cut-off engine, having a cylinder 10½ inches in diameter by 12 inches stroke, which is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute; an automatic high-speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by 12½ inches stroke, in connection with which there is an automatic recording apparatus for registering the load on the brake; a Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser; a two-stage air compressor (built in the workshops of the department) taking 40 H.P. and having cylinders 10 inches and 17 inches in diameter by 15 inches stroke (the compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired); a 15 K.W. Curtis steam turbo-generator with independent surface condenser, air pump, and a bank of lamps for varying the load; two 12-H.P. high-speed forced lubrication compound engines (built in the workshops of the department), one of which is used to drive a Hall 1-ton Co_2 ice machine.

Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100-H.P. locomotive boiler, Belpaire type, fitted with Howden oil burning furnace, two Babcock & Wilcox water tube boilers, each 60 H.P. These boilers are fitted with the necessary tanks, weighing machines and apparatus for carrying out evaporation tests. For the study of superheated steam, one of the B. & W. boilers is fitted with a superheater built by the Superheater Co., and there is also a B. & W. separately fired superheater.

3. Gas Engine Laboratory.

This laboratory contains a horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke and developing 40 B.H.P.; a suction type producer for the above

with the necessary scrubbers and gas cleaning apparatus; a 10 B.H.P. Otto type gas engine (built in the workshops of the department) having a cylinder 8½ inches diameter by 12 inches stroke; a 14 B.H.P. 2-cylinder, 2-cycle Grey gasoline engine, a 4-H.P. Blackstone oil engine, a Ford automobile engine, a 9 H.P. Victory (Hvid) oil engine, and a 9 H.P. crude oil engine built by Vickers & Co.

4. Machine Shop.

This shop contains lathes, shapers, milling machines, etc., and in addition to being used for shopwork instruction is used as a laboratory for time studies and routing, etc.

METALLURGICAL AND ASSAYING LABORATORIES

These consist of a large furnace room of 2,000 sq. feet, for metallurgical operations, a furnace room for assaying of 1,000 sq. feet, a balance room, two small chemical laboratories, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket blast-furnace, 21 inches inside diameter, for smelting lead and copper ores, and a Bruckner roasting furnace.

In addition to this comparatively large-scale plant, apparatus has been provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight. For this small-scale work there are a number of crucible and muffle furnaces, heated by coke, gas, oil and electricity.

The electric furnace plant consists of a 50 H.P. motor and a 30 K.W. alternating current generator, together with transformers and measuring instruments. A number of electric furnaces have been installed for making steel, smelting ores, melting metals and making researches at high temperature. An automatic controller regulates the supply of power to these furnaces. A low-voltage direct-current generator is employed for electrolytic operations, and an electrode rotator and storage battery has been added for electrolysis on a small scale. An electric muffle furnace, having carbon resisters and an alundum muffle, is in regular use for determining the melting temperature of refractory materials, measurements being made with an optical pyrometer and Seger cones; the furnace can be heated to 1800°C. A "surface combustion" gas furnace and an oxy-acetylene furnace are also available for high temperature work.

A Leeds and Northrup "hump" method electric furnace with recording pyrometer has been modified to give automatic time-temperature control and is now a most useful appliance for heat-treatment and

pyrometric research. For heat-treatment and fire-assaying there is also a large electric muffle furnace with automatic temperature control, and a Freas electric oven suitable for constant temperature work up to 180°C.

An oxy-acetylene cutting and welding outfit is in regular use and has proved both instructive and useful for repairs and new construction.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine, a Sankey metal-bending tester, and Shore, Brinell and Rockwell hardness testers have been installed for investigating the mechanical properties of metals.

The assaying laboratory is equipped with a number of crucible furnaces fired with coke, a large gas muffle furnace, several gas-fired crucible furnaces, a large oil-fired muffle furnace and the electric muffle furnace mentioned above.

Adjoining the assaying laboratory are the balance room and a small laboratory for chemical work. One of the chemical laboratories has been fitted up as a regular "works laboratory" in which students are trained in commercial metallurgical analysis.

The metallographic laboratory is well equipped with microscopes, including a standard works microscope with photographic attachment. It has also a dark room and two very satisfactory polishing machines for preparing metal specimens, which were built in the department.

MINING AND ORE-DRESSING LABORATORIES

The Department of Mining Engineering has laboratories for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, dark room, machine shop, etc. The effective floor space is about 10,000 square feet, in addition to which the departmental store rooms, oore bins, etc., have an area of 1,500 square feet.

The ore-dressing laboratory proper is built in two storeys about a central well and has about 6,500 square feet total floor space. The equipment comprises pieces of apparatus specially designed for individual work on a small scale. Many of these are for elementary investigation and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore-dressing machines. Each machine is ordinarily used and tested independently, but, when expedient, a number of machines can be connected and thus complete plants of various kinds can be improvised. Special attention is paid to flotation and cyanidation. In flotation the plant is so arranged that continuous operation is secured and selective flotation of two or more minerals obtained, under conditions which closely approximate large scale operations in both practice and results obtained.

The chief pieces of apparatus in the main laboratory are a gyratory and both types of jaw rock crushers; gravity stamp mill of 600 lbs.; steel-tyred rolls; grinders for preparing samples, and ball mills, pebble mills and amalgamation pans for extremely fine grinding; Jones and Brunton samplers; a Callow belt screen, a Tyler-Hummer screen, and power shaking screens for sizing the crushed ores; a Richards pulsator jig, and other small hand jigs for coarse and medium concentration; Wiffley and Butchart riffled tables; magnetic separators, flotation apparatus of different types for both continuous and intermittent operations; a pachuca agitator, cyanidation vats and agitators, a Dorr thickener, an Oliver filter with the necessary tanks, pumps, etc., and several smaller vacuum and pressure filters; plates, pans and barrels for amalgamating gold and silver ores; settling and feeding cones, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and the necessary centrifugal pumps, feeders, samplers, steam-jacketed drying tables, etc., are provided for use in continuous work. The power chiefly used is electricity, generated in the University power station and utilized through a number of independent motors aggregating 100 H.P. Two motor-driven vacuum pumps of 7½ and 4 H.P. serve the filters. The department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determination of the amount of power used by each machine.

Compressed air for the laboratory is provided by a single-stage air compressor, direct-connected to a 25-H.P. motor. A low-pressure tank and nozzle are provided with which the students make compressor-efficiency tests.

In addition to the main laboratory, there are excellent facilities for advanced and research work—including a chemical and assay laboratory and a photographic room.

PETROGRAPHICAL LABORATORY

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a number of petrographical microscopes by Bausch and Lomb, Leitz, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solution, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin and polished sections for microscopic use.

For advanced work and petrographical investigations, the extensive collection of rocks and thin sections, donated to the department by Dr. F. D. Adams, is available for purposes of study and comparison.

THE PHYSICAL LABORATORIES

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by students in practical work; (3) various types of important instruments for exact measurements, to be used in connection with special work and research.

The basement contains a liquid air plant and two large and one small laboratories for research work. Stark effect, radioactivity, electrical measurements, spectroscopes, etc.

There is a constant temperature room, surrounded by double walls, which is fitted with Moll Recorder and Concave Grating.

The first floor contains the main electrical laboratory, which is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves around the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. Three small research laboratories adjoin the electrical laboratory. A well-equipped workshop serves for the construction of research apparatus and repair work.

On the second floor of the building there is a heat laboratory for advanced work and research. This adjoins a private laboratory fitted for research work. On this floor is situated the main lecture theatre with adjoining preparation and apparatus rooms, also the Director's Office and laboratory.

The third floor contains two small lecture rooms, a library and reading room for the staff and professors' rooms.

The fourth floor contains the large elementary laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining, and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is an optical laboratory for advanced and research work, a series of smaller optical rooms, and a dark room for photographic work.

On the fifth floor is a laboroatory for properties of matter, and a students' lathe and workshop.

STRENGTH OF MATERIALS LABORATORIES

These laboratories are equipped with apparatus for determining the physical properties of materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes :—

(*a*) Riehlé testing machine of 60,000-lb. capacity, a Wicksteed 100-ton, a Wicksteed 50-ton, an Emery 75-ton machine, and an Olsen machine of 10,000-lb. capacity, for testing the tensile, compressive and transverse strength of materials of construction. The 100-ton Wicksteed machine is equipped for testing the transverse strength of girders and beams up to 26 feet in length. Provision is also made for testing ropes, belts and textile fabrics, holding power of nails, strength of hose, etc.

(*b*) An accumulator, operated by an electrically driven pump, furnishes a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, to ensure a steady application of stress.

(*c*) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types; portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*d*) Apparatus for measuring the torsion of rods, deflection of springs, elongation of rods under tension; bending combined with torsion, etc.

(*e*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in pounds up to 2,500 lbs. per square inch. All the testing machines are on the same pressure circuit, and are connected with the Emery gauge and other standard gauges.

(*f*) Apparatus for determining the hardness of materials of construction, including Shore sleroscope.

(*g*) Zeiss and other microscopes, and apparatus for microscopic study of metals.

(*h*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from 0.00001 lb. up to 125 lbs.

(*i*) Micrometers of all kinds, including a 10-inch Howard gauge, and Berry strain gauges.

(*j*) Amsler box for calibration of large testing machines.

BOTANICAL LABORATORIES

The Department of Botany is housed on the first and ground floors of the Biological Building. The large and well-lighted elementary laboratory will afford ample accommodation for large classes. There are, in addition, smaller laboratories for Phanerogamic and Cryptogamic Botany, special rooms for preparation, sterilization, chemistry and photography and research accommodation. Opening out of the large laboratory is a small conservatory for the culture and preservation of demonstration material. A room is also set apart as a departmental laboratory, reading room and demonstration museum.

The practical work in plant physiology, genetics, etc., is done in a special large physiological laboratory (20 ft. by 75 ft.), and three adjoining glass houses, each 60 feet long and 18 feet wide, with the exception of a section of the central house, which is 25 feet square.

PETROGRAPHICAL LABORATORY

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a number of petrographical microscopes by Bausch and Lomb, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

THE PSYCHOLOGICAL LABORATORY

The psychological laboratory occupies fourteen rooms on the third floor of the Molson Hall in the Arts Building. It contains apparatus for the study and investigation of sensation, perception, ideas, memory, association, attention, volition, feelings, emotions and reaction. This equipment serves three purposes: First, it is adapted to research work in the various fields of experimental psychology, including physiological psychology, educational psychology, and applied psychology. Second, it is used to acquaint beginners with the methods of experimental psychology, both qualitative and quantitative. Third, it furnishes material for experimental demonstration in the elementary and advanced lecture courses.

THE ZOOLOGICAL LABORATORIES

The zoological laboratories are situated in the Biological Building, where ample provision is made for the accommodation of all classes.

The equipment includes microscopes and microtomes and accessories of different models for various requirements; fresh water aquaria, preparations, charts and apparatus for research. Specimens exhibited in the Peter Redpath Museum are available for study and illustration.

Arrangements can be made with the Biological Board of Canada for qualified students to take up some branch of original work at the Atlantic Biological Station, St. Andrews, N.B., during the summer months and to complete the investigation here during the session.

DIRECTORY OF STUDENTS

NOTE:—Theological students, although included in this list, are not members of McGill University but of the affiliated Theological Colleges.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Where two addresses are given, the second is the home address.			
Abbott, Clark Warner	Arch. 5	4834 Western Ave, Westmount, Que.	West. 6057
Abram, Sophie	Lib. Sch.	3534 Shuter St., Montreal	Marq. 1582
		Amherst, N.S.	
Abrahamson, Robert H	Med. 5	1188 Sherbrooke St. W., Montreal	Up. 3549
		350 Central Park W., New York, N.Y.	
Abramowitz, Irving	Com. 1	4516 Esplanade Ave., Montreal	Bel. 2509
Abramowitz, Judith	Arts 1	507 Argyle Ave., Westmount Que.	West. 4622
Abramowitz, Richard	Ap. Sci. 4	4516 Esplanade Ave., Montreal	Bel. 2509M
Abramson, Arthur	Arts 1	4221 Laval Ave., Montreal	Bel. 8974J
Acena, J. Guillermo	Ap. Sci. 4	1827 Ave. de L'Egise, Montreal	Up. 7913
		14 C.P. No. 17A Guatemala, Guatemala.	
Adams, Gordon Taylor	Med. 4	3628 Lorne Crescent, Montreal	Plat. 2300
		Matapedia, Que.	
Addie, Gordon R	Arts 4.	3473 University St, Montreal	Plat. 0720
		148 St. Cyrille St., Quebec, P.Q.	
Adelstein, Harry M	Ap. Sci. 1	5010 Sherbrooke St. W., Montreal	West. 6785
Adelstein, Howard M	Com. 2	4239 Esplanade Ave., Montreal	Bel. 6165
Affinito, Thomas	Med. 4	3457 Shuter St., Montreal	Marq. 7669
		395 Ellsworth Ave., New Haven, Conn.	
Aikin, Dorothy	Arts 4	469 Victoria Ave., Westmount, Que.	West. 9878
Aikin, Flora Isabel	Arts 2	469 Victoria Ave., Westmount Que.	West. 9878
Aikman, Edward P	Arts 2	340 St. Catherine Rd., Outremont, Que.	At. 1461
Aird, Dorothy M	Arts 2	125 Brock Ave., N, Montreal West, Que.	Wal. 3599
Albert, Esther	Arts 1	257 De L'Epee Ave., Montreal	At. 4278
Alchin, Richard H	Arts 2	3473 University St, Montreal	Marq. 4902
		16 Lansdowne Rd. Bromley, Kent, England.	
Alcorn, Douglas E	Med. 4	690 Sherbrooke St.W., Montreal	Lan. 7141
		572 Beach Drive, Victoria, B.C.	
Alexander, Isabel E	Arts 4	334 Harvard Ave., Montreal	Wal. 0364
Alexander, John D. F	Med. 1	251 Milton St., Montreal	Lan. 0636
		Huntingdon, Que.	
Alexandor, Bernard M	Law 2	613 Victoria Ave., Westmount, Que.,	West. 1800
Alexandor, Huldah M	Grad. Sch	613 Victoria Ave., Westmount, Que.	West. 1800
Alguire, Helen Adele	Arts 2	179 Hampton Ave. Montreal	Wal. 5883
Allardyce, William J	Grad. Sch	3647 University St, Montreal	Up. 5070
		2772 Camosun St., Vancouver, B.C.	
Allen, Alexander	Arts P.	5066 St. Catherine St., E. Montreal.	
Allen, Margaret Phyllis	Arts 2	229 Westmount Blvd., Westmount.	West 1899
Allen, Mrs. Alexander	Grad. Sch	5066 St. Catherine St. E., Montreal	
Allendorf, Francis J	Med. 4	3455 Hutchinson St., Montreal	Plat. 1712
		44 Carroll St. W. Foxbury, Mass.	
Allen, John Stanley	Grad. Sch	3506 University St. Montreal	Marq. 2055
Allison, Eric Franklin	Com. 2	619 Murray Hill, Westmount	West. 2636
Allison, Mary C	Arts 1	207 Vendome Ave., Montreal	Wal. 6604
Allo, Gordon F	Ap. Sci 1	314 Hingston Ave., Montreal	Wal. 4393
Alpert, Barnett B	Med. 3	3417 Peel St., Montreal	Up. 1071
		2038. 61st St., Brooklyn, N.Y.	
Altimas, Gerald T	Med. 5	5358 Waverly St., Montreal	Cres. 0042
Altner, Joseph B	Com. 3	208 Villeneuve St. W., Montreal	Bel. 3099M
		174 St. Valier St., Quebec.	
Amaron, Errol C	Grad. Sch	1158 St. Mark St., Apt. 24, Montreal	Wil. 1242
Amas, Edith	Grad. Nurse 1	R.V.C. 3454 University St.	Marq. 2610
		Qu'Appelle, Sask.	

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Anderson, Frederick Wm. V.	Com. 2	765 Hartland Ave., Montreal	At. 7837J
Anderson, Gordon L.	Med. 1	5116 Park Ave., Montreal	Cres. 2810
Anderson, Reginald Moore	Arts 2	40 Charron St., Montreal	Wil. 6912
Andrew, Russell H.	Arts 2	2071 Peel St., Montreal	Lan. 9359
		67 E. Orvis St., Massena, N.Y.	
Andrews, D.	Theo. 2	3473 University St., Montreal	Marq. 4902
Angel, Kalman	Arts 2	4317 St. Dominique St., Montreal	Bel. 6264J
Anglin, James P.	Arts 1	682 Roslyn Ave., Westmount, Que.	West. 1732
Anglin, Jean C.	Arts 1	682 Roslyn Ave., Westmount, Que.	West. 1732
Anthony, Alan Roy	Med. 2	3592 University St., Montreal	Marq. 4479
		1738 Angus Drive, Vancouver, B.C.	
App'eton, Frances E.	Arts 3	700 Marcil Ave., Montreal	Wal. 9385
Apter, Robert F.	Ap. Sci. 4	356 Pine Ave. W., Montreal	Har. 8390
		50 Fraser St., Quebec, Que.	
Arcand, Louis J.	Ap. Sci. 3	3561 Durocher St., Montreal	
Archer, Russell C.	Arts P	3485 McTavish St., Montreal	Marq. 2720
		West Lorne, Ont.	
Archibald, John S.	Arts 2	Strathcona Hall, Montreal	Lan. 1567
		Box 120, Kamloops, B.C.	
Argue, Charles William	Grad. Sch. 3	3506 University St., Montreal	Marq. 2055
		Vancouver, B.C.	
Argue, John Fenton Jr.	Arts 1	3434 McTavish St., Montreal	Up. 8633
		116 Nepean St., Ottawa, Ont.	
Armstrong, Charles G.	Ap. Sci. 4	3637 University St., Montreal	Plat. 2681
		330 Kingsway, Winnipeg, Man.	
Armstrong, John Edwin	Ap. Sci. 1	380 Marlowe Ave., Montreal	Wal. 0217J
Armstrong, Lucy Amelia B.	Arts 4	776 Wilson Ave., Montreal	Wal. 7669
		Danville, Que.	
Armstrong, Mary E.	Com. 1	4470 Western Ave., Montreal	West. 4197
		Ballston Spa, N.Y.	
Armstrong, Violet B.	Arts 4	74 Courcellette Ave., Outremont, Que.	At. 5098
Arnold, Carolyn	Arts 2	3500 Durocher St., Montreal	Plat. 1755
Arnold, John Stuart H.	Arts 3	3430 Ontario Ave., Montreal	Up. 3641
Arnold, Leonard E.	Med. 5	3430 Park Ave., Montreal	Plat. 6528
		Montego Bay, Jamaica, B.W.I.	
Aronovitch, Harry Lyon	Arts 1	5352 St. Lawrence Blvd., Montreal	Cres. 5306
Aronovitch Michael	Arts 3	5352 St. Lawrence Blvd., Montreal	Cres. 5306
Arrowsmith, Meryl Kathleen	Arts 2	133 Brock Ave. N., Montreal West, Que.	Wal. 7646
Asbury, Nowers	Arts 2	18 Somerville Ave., Westmount, Que.	West. 5528W
Ash, Frances Gertrude	Arts 4	490 Champagneur Ave., Outremont	At. 3042
		624 King Edward Ave., Ottawa, Ont.	
Ash, William John	Arts 1	3615 University St., Montreal	Plat. 2527
		710 Blvd. E., Weehawken, N.J.	
Aspler, Moses Mendel	Arts 2	4053 Esplanade Ave., Montreal	Bel. 5306
Astwood, E. Millard	Med. 4	538 Pr. Arthur St. W., Montreal	Plat. 3624
		Hamilton, Bermuda.	
Atkinson, Thomas M.	Ap. Sci. 2	3637 University St., Montreal	Plat. 2681
		39 Stanley St., Simcoe, Ont.	
Atto, Clayton H.	Arts 2	274 Trenton Ave., Town of Mount Royal, Que.	At. 2797
Audet, Paul	Com. 2	3601 University St., Montreal	Plat. 4590
		9 Ramparts St., Quebec, Que.	
Auld, George	Arch. 2	3433 Peel St., Montreal	Up. 2143
		949 Cumberland Ave., Hamilton, Ont.	
Austin, Ernest R.	Com. 3	772 Sherbrooke St. W., Montreal	Lan. 1567
		847 Denman St., Vancouver, B.C.	
Aylen, Peter	Ap. Sci. 1	2020 Victoria St., Montreal	Lan. 7380
		274 O'Connor St., Ottawa.	
Bacal, Harry Lyon	Med. 5	5394 Jeanne Mance St., Montreal	Cres. 2075.
Backler, Irving I. Saul	Ap. Sci. 2	5331 Mance St., Montreal	Cres. 9859
Bacon, G. Stewart A.	Arts 4	4161 Dorchester St., Montreal	West. 1494
Baikie, Elizabeth Isabel	Arts 3	3454 University St., Montreal	Marq. 2610
		262 Monkland Ave., Montreal	
Bailey, Alexander Graham	Arts 1	3530 Durocher St., Montreal	Plat. 0316
		186 Holmwood Ave., Ottawa, Ont.	
Bailey, James Alfred	Ap. Sci. 2	301 Ballantyne Ave., Montreal West Que.	Wal. 1409
Bailey, Ralph Arthur	Arts 3	504 Belanger St., Montreal	Cal. 3999 W

Where two addresses are given the second is the home address.,

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Baillie, Janet Ellen	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		149 Ridge Rd., Rutherford, N.J.	
Baird, Charles Calvin	Med. 4	3455 Hutchison St., Montreal	Plat. 1712
		Chipman, N.B.	
Baker, George Prescott	Com. 4	3434 McTavish St., Montreal	Up. 8633
		Yarmouth, N.S.	
Baker, Howard M. A	Com. 3	3571 Hutchison St., Montreal	Plat. 0675
Baker, Kenneth G. K	Arts 2	1231 Sussex Ave., Montreal	Wil. 8497
Baker, Laughlen J	Med. 2	545 Pine Ave. W., Montreal	Marq. 1545
		310 Franklin St., Ogdensburg, N.Y.	
Balinsky, Lawrence S	Ap. Sci. 1	6082 Hutchison St., Montreal	At. 3153
Ball, Mildred Anna	Arts 2	493 Sherbrooke St., Montreal	Marq. 1439
		Magog, Que.	
Ball, Ralph Henry	Grad. Sch	3647 University St., Montreal	Marq. 2806
		Kelowna, B.C.	
Ball, William Lee	Arts 3	627 Carleton Ave., Westmount, Que.	West. 2053
Ballantyne, Murray G	Arts 4	3484 Mountain St., Montreal	Up. 3767
Balmer, Ian Argyle	Med. 4	3442 Durocher St., Montreal	Marq. 8838
		Tuxford, Sask.	
Band, Samuel	Ap. Sci. 1	362 Victoria Ave., Westmount, Que.	West. 6159
Banfield, A. Frederick	Arts 4	4116 St. Denis St., Apt. 3 Montreal	Bel. 5190W
		185 Home St., Winnipeg, Man.	
Banfill, Alice G	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		East Angus, Que.	
Banfill, Stanley M	Med. 2	1216 Crescent St., Montreal	Up. 0385J
		East Angus, Que.	
Barber, Gilbert A	Dent. 3	3489 Shuter St., Montreal	Plat. 5924
		Pointe Gatineau, Que.	
Barclay, Isabel M	Arts 4	3625 Durocher St., Montreal	Plat. 0778
Barclay, Lynden H. W	Arts 2	460 Prince Arthur St., Montreal	Plat. 4395
		8 Woodlawn Ave., Ottawa, Ont.	
Barclay, William A	Arts 2	5417 Esplanade Ave	Cres. 2236
Barette, Lukin A	Soc. Work. P.	623 Prince Arthur W., Montreal	
Barker, Chas. Scott	Med. 3	230 Walkley Ave., Montreal	Wal.0899M
Barlow, E. M	Arts P	106 Arlington Ave., Westmount, Que	West. 2467
Barker, Walter Egbert	Grad. Sch	544 Prince Arthur St. W., Montreal.	
		Chapleau, Ont.	
Barlow, Frank A	Med. 5	2036 City Councillors St., Montreal.	
		91 Lafayette Ave., Passaic, N.J.	
Barnes, Annie K	Arts 1	495 Prince Arthur St. W., Montreal.	Plat. 6940
Barnes, W. L	Com. 1	627 Grosvenor Ave., Westmount, Que	West. 3080
Barnhill, Alexander B	Arts 2	11750 Notre Dame St. E., Montreal.	Pte. aux Tr. 131W
Baron, Edgar Allan	Arts 3	796 Outremont Ave., Outremont, Que	At. 4131
Barr, Alice J	Lib. Sch. P	5998 Esplanade Ave., Montreal	Cres. 0296
		1173-8 Ave. W., Vancouver, B.C.	
Barraclough, Clarice	Grad. Nurse	Nurses' Home, W. Div. Montreal	Wil. 6855
		Gen. Hosp.	
		La Tuque, Que.	
Barry, Kathleen E	Arts P	4215 Dorchester St., Montreal	West. 5084
Barsha, Jacob	Grad. Sch	5051 St. Urbain St., Montreal	Bel. 1859W
Bartlett, Leonard S	Med. 2	3565 Lorne Ave., Montreal	Plat. 5963
		Cottam, Ont.	
Barza, David	Med. 4	3666 Drolet St., Montreal	Har. 8457
Bates, Clarence L	Med. 1	772 Sherbrooke St. W., Montreal	Lan. 1567
		Dundas, Ont.	
Batist, Sadie	Soc. Workers 2	6619 Christophe Colomb, Montreal	Cal. 1659F
Batshaw, Frances G	Arts 2	5829 Hutchison St., Montreal	Cres. 6452
Baugh, Grace M	Arts 1	Durocher St., Park Extension, Que.	At. 6581
		Valleyfield, Que.	
Bavitch, Lazarus	Arts 3	4092 Clarke St., Montreal	Bel. 6633F
Baxt, Lawrence M	Arts 1	3505 Lorne Ave., Montreal	Marq. 2849
		201 O'Connor St., Ottawa, Ont.	
Baxter, Hamilton	Grad. Sch	605 Drummond Bldg., Montreal	Up. 1088
Baxter, Robert G	Arts 1	188 St. Denis Ave., St. Lambert,	St. Lam. 935
Baxter, Stewart G	Grad. Sch	3506 University St., Montreal	Marq. 9181
Bazar, Bernard	Arts 2	383 Edward Charles, Montreal	At. 4064

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Bazar, Philip S.	Arts 2	708 De l'Epee Ave., Outremont, Que	At. 5454
Bean, Carol M.	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Shawinigan Falls, Que.	
Beatty, George E.	Com. 3	1197 Crescent St., Montreal	Up. 0843
		Yokohama, Japan.	
Beauge, Mavis L.	Arts 3	5354 Durocher Ave., Montreal	At. 0956
Becket, Ralph W.	Arts 3	14 Selkirk Ave., Montreal	Up. 6627
Beeson, Paul B.	Med. 2	640 Prince Arthur W., Montreal	Lan. 2929
		Ketchikan, Alaska	
Belitzky, Jack T.	Arts 1	4071 St. Urbain St., Montreal	Bel. 6609W
Bell, Dorothy, A. D.	Arts 4	Apt. 21, 495 Prince Arthur St. W., Montreal	Mar. 1996
		P.O. Box 280, Halifax, N.S.	
Bell, Florence M. L.	Arts 2	4489 Sherbrooke St. W., Montreal	West. 4456
Bell, George M.	Com. 2	3516 Shuter St., Montreal	Marq. 8460
		3000 Victoria Ave., Regina, Sask.	
Bell, Helen P.	Arts 4	Apt. 21, 495 Prince Arthur St. W., Montreal	Mar. 1996
		P.O. Box 280, Halifax, N.S.	
Bell, John A.	Com. 3	3454 Peel St., Montreal	Up. 6788
		64 Delaware Ave., Ottawa, Ont.	
Belloc, Hilary A. A.	Ap. Sci. 2	3564 Durocher St., Montreal	Plat. 6566
		Shipley, Horsham, Sussex, Eng.	
Belnap, Celeste V.	Arts 3	558 Roslyn Ave., Westmount, Que.	West. 1909
Benard, Frederick	Ap. Sci. 4	4877 Park Ave., Montreal	Bel. 2568W
		Calle del Ferrocarril 59 Mixcoac D.F., Mexico	
Bennett, G. Francis	Ap. Sci. 3	1126 Sherbrooke St. W., Apt. 1, Montreal	Lan. 8523
		396 Lyon St., Ottawa, Ont.	
Bennett, Robert D.	Ap. Sci. 2	4643 Park Ave., Montreal	Bel. 2990
Bennetts, R. C.	Med. 2	3529 University St., Montreal	Mar. 9031
		Nevada City, Cal.	
Benson, Jack Levy	Ap. Sci. 4	5465 Hutchison St., Montreal	Cres. 5488
Benson, Gordon W.	Arts 1	214 Wilson Ave., Montreal	Wal. 1105
Bercitold, Frieda	Arts 2	5016 St. Urbain St., Montreal	Bel. 4839W
Berenstein, Leslie	Ap. Sci. 4	5826 Park Ave., Montreal	Cres. 4270
Bercovici, Ethel	Arts 3	3525 Durocher St., Montreal, Apt. 90	Marq. 2791
Bercovitch, Elise	Arts P	337 Roslyn Ave., Westmount, Que.	West. 2300
Bercovitch, Myer Ralph	Med. 1	4643 St. Urbain St., Montreal	Bel 1507F
Bercovitz, George David	Arts 3	47 Joyce Ave., Montreal	At. 5726
Bercovitz, Ruth Beatrice	Arts 1	47 Joyce Ave., Montreal	At 5726
Bercovitz, Sylvia	Arts 1	740 Bloomfield Ave., Outremont, Que.	At. 7508
Berger, Bernard A.	Ap. Sci. 4	1235 Bernard Ave. W., Apt. 16	At. 7914
Berger, E. S.	Arts 3	4176 City Hall Ave., Montreal	Bel. 4960
Berger, Irvin J.	Arch. 3	1188 Sherbrooke St. W., Montreal	Up. 3549
		321 W. 78 th St., New York City	
Bergthon, Carl	Arts 4	4129 Dorchester St. W.	West. 9302
Bernard, Jacques J.	Com. 1	49 Maplewood Ave., Outremont, Que	At. 2876
Bernard, Jean Marie	Arch. 1	5312 Chambord St., Montreal	Amh. 1263
Bernstein, A. L.	Ap. Sci. 1	4127 St. Lawrence Blvd., Montreal	Bel. 7918
Bernstein, Eric Lennard	Arts 3	480 Wood Ave., Westmount, Que.	West. 3076
Bernstein, Marcel	Law 2	65 Vendome Ave., Montreal	Wal. 8178
Berry, Kathleen Elsie	Arts P	4215 Dorchester St., Westmount, Que.	West. 5084
Best, Kathleen E.	Grad. Sch	493 Sherbrooke St. W., Montreal	Marq. 1439
		Whitby, Ont.	
Best, Lolita L.	Grad Nurse P.	4039 Tupper St., Montreal	West. 9000
		135 Powell Ave., Ottawa, Ont.	
Beswick, Wenonah P.	Arts 2	483 Strathcona Ave., Westmount, Que.	West. 1189
Bethune, Laura Frances	Phys. Ed. 2	548 Prince Arthur St. W., Montreal	Mar. 7845
		301 St. George Apts., Bloor St. W., Toronto, Ont.	
Bield, Marguerite G.	Arts 1	3941 Berri St., Montreal	Lan. 0597
Bierbrier, Lillian	Com. 1	397 Durocher Ave., Montreal	Cres. 3098
Biggar, Horace William	Com. 3	3609 University St., Montreal	Marq. 4300
		112 E. St. Rafael St., Colorado, Ohio	
Billete, Roger	Ap. Sci. 3	3617 St. Famille St., Montreal	Har. 5643
		Valleyfield, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Billingsley, Lawrence Wilson	Arts 2	628 Grosvenor Ave., Westmount, Que.	West.5102
Binnie, J. Corneil	Law 1	563 Grosvenor Ave., Westmount, Que.	West.4124
Birnie, Garfield S.	Com. 3	603 Lansdowne Ave., Westmount, Que.	West.2203
Bishop, Marguerite R.	Arts 4	848 McEachran Ave., Outremont, Que.	At. 0911W
Bishop, Ruth Ann	Arts 2	454 Elm Ave., Westmount, Que.	West.4282
Bishop, William S.	Arts 4	3506 University St., Montreal	Marq.2055
		Bay Roberts, Nfld.	
Bisson, Margaret M.	Grad. Sch.	670 Northmount Ave., Montreal	At. 4153
Bisson, Russell D. A.	Med. 4	3442 Durocher Ave., Montreal	Marq.8838
		Rossland, B. C.	
Bissonnet, Mary E.	Arts 3	Royal Victoria College	Plat. 0078
		Rock Island, Que.	
Black, Catharine A.	Arts 4	40 Forden Crescent, Westmount, Que.	West.5467
Black, David H.	Med. 1	Apt. 7, 4560 St. Catherine St., Westmount, Que.	West.2307
Black, Donald Harvey F.	Arts 2	40 Forden Crescent, Westmount, Que.	West.5467
Black, Ernest Gordon	Com. 2	4560 St. Catherine St. W.	West.2307
Black, Gordon G.	Arts 1	21 Cote des Neiges Rd., Montreal	Up. 4082
Black, James Ream	Med. 1	445 Cote des Neiges Rd., Montreal	West.3786
Black, John George	Arts 1	625 Murray Hill, Westmount, Que.	West.7999
Blair, Donald L.	Arch. 3	3605 University St., Montreal	Marq.3101
		P.O. Box 281, Ottawa, Ont.	
Blake, Earl M.	Med. 1	772 Sherbrooke St. W., Montreal	Lan. 1567
		Waterloo, Que.	
Blanchet, Paul H.	Ap. Sci. 4	3434 McTavish St., Montreal	Up. 8633
		Rothesay, N.B.	
Bland, John	Arch. 2	1197 Guy St., Montreal	Up. 6227
Blau, Abraham	Med. 4	408 Wiseman Ave., Outremont, Que	At. 7663
Blemer, John Whitney	Med. 5	317 Pine Ave. W., Montreal	Marq.1545
		1047 Cragment Ave., Berkeley, Cal.	
Blond, Harry H.	Med. 4	Apt. 5, 661 Querbes Ave., Outremont, Que.	At. 3316
Blond, Irwin Bernard	Law 2	Apt. 5, 661 Querbes Ave., Outremont, Que.	At. 3316
Bloom, Joseph	Med. 1	3951 DeBullion St., Montreal	Lan. 9009
Blouin, Sr. Marie Elsie	Grad. Sch. P.	4873 Westmount Ave., Westmount, Que.	West. 1480
		Seton Hill College, Greensburg, Pa.	
Blumberg, Perry	Med. 3	3433 Shuter St., Montreal	Plat. 6854
		1562 Ocean Ave., N.Y.	
Blumenthal, Estelle H.	Arts 2	63 Strathearn Ave., Montreal West, Que.	Wal. 2173
Blundell, Stanley F.	Med. 2	3710 Jeanne Mance St., Montreal	Har. 5991
		Victoria, B.C.	
Boak, Andrew C.	Ap. Sci. 4	3015 Sherbrooke St. W., Montreal	West. 525
Bodger, Roland	Arts 1	3473 University St., Montreal	Marq. 1902
		53A High St., Eton, Eng.	
Boggs, Robert K.	Med. 2	640 Prince Arthur St. W., Montreal	Lan. 6809
		Multnomah Club, Portland, Oregon.	
Boissonnault, Bertrand O.	Ap. Sci. 4	226 Querbes Ave., Outremont, Que.	At. 2891W
Bolton, Arthur H.	Arts 3	577 Roslyn Ave., Westmount, Que.	West. 1057
Bonar, Jean Margaret	Arts 3	611 Lansdowne Ave., Westmount, Que.	West. 962
Bondar, H. Kelliher	Med. 3	2026 McGill College Ave., Montreal	Lan. 8810
		1826 E. 9th St., Brooklyn, N.Y.	
Boness, Jack	Dent. 4	4581 Park Ave., Montreal	Bel. 0612
Bonner, Harold Chapman	Med. 2	640 Prince Arthur St. W., Montreal	Lan. 6809
		165 Wellington Ave., Rochester, N.Y.	
Booth, Dorothy Taylor	Com. 1	4704 Adam St., Montreal	Clair. 0405
Booth, Leonard Noel	Arch. 5	2022 University St., Montreal	Lan. 7757
Boothman, Alfred Johnston	Dent. 3	2070 Union Ave., Apt. 1, Montreal	
		4873 Ross St., Vancouver, B.C.	
Boright, Gilbert Watson	Com. 4	4250 Sherbrooke St. W., Montreal	West. 6413
Boright, Raymond K.	Arts 1	Strathcona Hall, Montreal	Lan. 1557
		Sutton, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Boswell, Henry Aird	Med. 4	3410 Atwater Ave., Apt. 9, Montreal. 206 Second Ave., Troy, N.Y.	West. 4934
Bouchard, Valmer D	Arch. 4	3429 Peel St., Montreal 91 Peel St., Sherbrooke, Que.	Up. 5947
Boucher, Raymond A	Arts 3	892 Sherbrooke St. W., Montreal 367 Elm St., Woonsocket, R.I.	Lan. 8505
Boudreau, Eugene C	Com. 2	662 Old Orchard Ave., Montreal	Wal.4038W
Boulkind, Henry N. F	Arts 2	201 Grey Ave., Montreal	West. 2687
Boulton, Arthur M	Arts 4	3605 University St., Montreal 5 College Court, Quebec, Que.	Marq. 3101
Bourdeau, Napoleon	Com. 1	St. Johns, Que	St. Johns 943
Bourne, Frederick Munroe	Arts 3	2079 Dorchester St. W., Montreal	W.l.2 10
Bowles, William Shedden	Ap. Sci. 4	7 Park Manor, 44 Academy Rd., Westmount, Que	West. 7473
Bowman, Robert Turnbull	Com. 2	3434 McTavish St., Montreal Cloverdale Rd., Rockliffe, Ottawa, Ont.	Up. 8633
Boyce, Harry M	Com. 4	3429 Peel St., Montreal 755-7th Ave. E., Vancouver, B.C.	Up. 5947
Boyd, Alvie R. J	Med. 4	3516 Shuter St., Montreal 509-5th Ave., Saskatoon, Sask.	Marq. 8450
Boyd, Laurence G	Arts 1	122 Geo. 5th Ave., Lachine, Que.	Lachine1702
Boyd, Robert Wallace	Med. 4	3575 Hutchison St., Montreal 311-2nd St., Medicine Hat, Alta.	Plat. 3377
Boyer, Raymond	Arts 4	3552 Mountain St., Montreal	Up. 2811
Brabander, Joachim O. W	Med. 3	381 Maplewood Ave., Montreal	At. 1275
Brace, M. Lenora	Arts 2	765 Upper Lansdowne Ave., Westmount, Que	West. 5306
Brand, Margaret M	Arts 3	5211 LaSalle Blvd., Verdun, Que	York 4778J
Brandes, Jack Saul	Med. 2	145 Laurier Ave. W., Montreal	Cres. 2506
Brandon, Dudley A. P	Arts 2	1482 Victoria St., Montreal Kingston, Jamaica, B.W.I.	Lan. 2808
Braunstein, Moses Mendel	Med. 5	1103 Laurier Ave. W., Montreal	At. 7454
Brazill, Cyril Clyde	Arts 1	3473 University St., Montreal Channel, Nfld.	Marq. 4902
Breakey, Andrew	Arts 3	3433 Peel St., Montreal Chaudiere House, Breakeyville, Que.	Up. 2143
Brenhouse, Samuel E	Arts 1	4301 Esplanade Ave., Montreal	Bel. 2148
Brennan, Florence M	Arts 2	73 Hallowell Ave., Westmount, Que.	West. 5652
Brifman, Jack Stanley	Phar. 3	4848 Jeanne Mance St., Montreal	Lan. 6582
Brisbane, Marion L	Arts 3	452 Strathcona Ave., Westmount, Que.	West. 1969
Britton, Edward Francis	Arts 2	4691 Adam St., Montreal	Clair.1017M
Brocklesby, Horace N	Grad. Sch	45 Strathcona Hall, Montreal Prince Rupert, B.C.	Lan. 1567
Brockway, Katherine Anne	Arts 2	1421 Queen Mary Rd., Montreal White River Jct., Vermont.	West.4625J
Broderick, George Norman	Arts 3	68 Draper Ave., Montreal	Wal. 4307
Brodhead, Edgar	Com. 2	1 Rosemount Ave., Westmount, Que.	West. 5232
Brodie, Bernard	Arts 3	Strathcona Hall, Montreal 132 Driveway, Ottawa, Ont.	Lan. 1567
Brody, Selwyn	Arts 2	1045 St. Viateur St. W., Montreal 29 Commercial St., Glace Bay, N.S.	Cres. 3651
Bronfman, Rona	Arts 2	49 Rosemount Ave., Montreal	West. 7781
Brooks, Paul Lester	Med. 3	1490 Drummond St., Montreal 60 Clinton St., Portland, Me.	Up. 6600
Brooks, Phyllis Edith	Arts 4	473 Clarke Ave., Montreal	West. 4998
Brooks, Randall H	Med. 3	3568 Shuter St., Montreal Colebrooke, N.H.	Marq. 6830
Brooks, Rita A	Grad. Nurse P	3550 University St., Montreal Southampton, York Co., N.B.	Plat. 1251 Local 155
Brophy, Jas. Pearson	Com. 1	77 Bruce Ave., Montreal	West. 2992
Brotman, Herbert L	Med. 5	4244 St. Urbain St., Montreal	Bel. 9799
Brown, Burton S. W	Med. 1	306 Wilson Ave., Montreal	Wal. 0554
Brown, Dorothy B	Arts 2	465 Marcil Ave., Montreal	Wal. 9686
Brown, Edward E	Ap. Sci. 2	660 Bloomfield Ave., Outremont, Que.	At. 6479J
Brown, Elizabeth Ann	Lib. Sch. P	520 Wilson Ave., Montreal	Wal. 1296
Brown, Ernest F	Arts 1	660 Bloomfield Ave., Montreal	At. 6479J
Brown, Gene Louise	Lib. Sch. P	520 Wilson Ave., Montreal	Wal. 1296

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Brown, George	Grad. Sch	55 Bruce Ave., Westmount, Que.	West.9151W
Brown, George M	Ap. Sci. 1	761 Upper Lansdowne Ave., Westmount, Que.	West. 4886
Brown, James A.	Ap. Sci. 4	761 Upper Lansdowne Ave., Westmount, Que.	West. 4886
Brown, Lyla Irene	Med. 5	460 Prince Arthur St. W., Montreal. 306 Wilson Ave., Montreal	Plat. 4395
Brown, Thomas	Ap. Sci. 4	5857-5th Ave., Rosemount, Montreal	Cher. 6306
Browne, John S. L.	Grad. Sch	3619 Oxenden Ave., Montreal	Marq. 3076
Brownrigg, Garrett M	Med. 3	3534 Lorne Ave., Montreal St. Johns, Nfld.	Marq. 5992
Brownrigg, Leslie W.	Med. 3	990 Cherrier St., Montreal Chamcook, N.B.	Fron. 4710
Bruce, Alice Sym	Arts 2	57 Madison Ave., Montreal	Wal. 0355
Bruce, Ronald MacGregor	Arts 1	3485 McTavish St., Montreal Huntingdon, Que.	Up. 9130
Bruker, Samuel	Law 2	234 Villeneuve W., Montreal	Bel. 6816
Bryson, Margaret Isobel	Arts 1	474 Old Orchard Ave., Montreal	Wal. 0897
Bub, Mary Frances	Phy. Ed. 1	3466 University St., Montreal 39 Roosevelt Ave., Poughkeepsie, N.Y.	Marq. 2608
Buchanan,	Grad. Nurse P.	Nurses' Home, Royal Victoria Hospital, Montreal Toronto. Ont.	Plat. 1251
Buckley, Neil R.	Com. 1	49 Brock Ave. N., Montreal West, Que.	Wal. 0877
Buffam, George Beverley B.	Arts 2	3506 University St., Montreal Perth, Ont.	Marq. 2055
Bunting, Sidney Smith	Arts 1	27 Breslay Rd., Montreal	West. 5534
Burbank, Erwin C.	Arts P	345 Oxford Ave., Montreal	Lan. 9977 (9-5) Wal.9949W (Home)
Burgess, Eric Luther	Arch. 1	3613 Parke Av., Montreal 67 Grove Ave., Ottawa, Ont.	Har. 9767
Burk, C. Albert	Grad. Sch	3613 St. Urbain St., Montreal	Plat. 5364
Burke, George T.	Med. 4	545 Pine Ave. W., Montreal R.R. 4, Pontiac, Mich.	Marq. 1545
Burleson, Henry S.	Ap. Sci. 1	3605 University St., Montreal 203 White Park Rd., Ithaca, N.Y.	Plat. 0354
Burris, Margaret S.	Arts 3	Royal Victoria College, Montreal Kamloops, B.C.	Marq. 2610
Bursey, H. R.	Theol. 3	3506 University St., Montreal Ulverton, P.Q.	Marq. 2055
Burton, Garland G.	Grad. Sch	585 Fortune St., Montreal Greenspond, Nfld.	Wil. 7454
Butler, Albert A.	Arts 3	5683-7th Ave., Rosemount, Montreal	Clair.4348J
Butler, Howard C.	Ap. Sci. 4	3550 Shuter St., Montreal 48 Clarendon Ave., Ottawa, Ont.	Marq. 8260
Butler, John W. T.	Ap. Sci. 1	56 Thornhill Ave., Westmount, Que.	West. 8645
Butler, Thomas R.	Law 1	37 Barat Road, Westmount, Que.	West. 2458
Butlin, Claude M.	Arts 4	3637 University St., Montreal Abasolo 8, Popotla, Mexico D. i.	Plat. 2681
Butt, Herbert M.	Dent. 3	3506 University St., Montreal Harbour Grace, Nfld.	Marq. 2055
Buxton, Kenneth S.	Grad. Sch	272 Wilson Ave., Montreal	Wal. 0917J
Byers, Alfred R.	Arts 2	74 Westmount Blvd., Westmount, Que.	West. 5811
Byers, Anne R.	Arts 1	1810 Queen Mary Rd., Hampstead, Que.	El. 4838
Byers, John N. C.	Med. 5	539 Pine Ave. W., Montreal Rimbey, Alta.	Marq. 7818
Bynoe, Evan T.	Grad. Sch	Macdonald College Barbados, B.W.I.	Ste. Anne 166
Calder, Alice D	Arts 3	210 Westmount Blvd., Westmount, Que.	West 2029
Calder, Frank	Ap. Sci. 4	186 Brand Blvd., Montreal	Wal. 3774
Calder, Robert M., Jr.	Arts 2	5959 Hutchison St., Montreal	At. 4395M
Calder, Thomas	Arts 1	186 Grand Blvd., Montreal	Wal. 3774
Calhoun, Kathleen	Phy. Ed. 2	3466 University St., Montreal 449 Colorado Ave., Bridgeport, Conn.	Marq. 2608
Calhoun, Robert B.	Arts 4	3434 McTavish St., Montreal 449 Colorado Ave., Bridgeport, Conn.	Up. 8633

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Call, Russell B	Com. 3	3429 Peel St., Montreal North Hatley, Que.	Up. 5947
Camerlain, Homer H	Grad. Sch	113 St. Lawrence Ave., St. Lambert, Que.	St. Lam. 316M
Cameron, Alexander J	Ap. Sci. 2	1940 Comte St., Montreal	Wil. 3058
Cameron, Ernest Russell	Arts 3	3464 Hutchison St., Montreal	Plat. 0855
Cameron, George M	Arts P	615 Bloomfield Ave., Outremont, Que.	
Cameron, James B	Arts 1	3464 Hutchison St., Montreal	Plat. 0855
Cameron, John Ross	Arts 4	609 Clarke Ave., Westmount, Que.	West. 2884
Cameron, Kenneth N	Arts 3	4787 Notre Dame St. E., Montreal	Clar. 2344
Cameron, Margaret B	Arts 3	Royal Victoria College, Montreal 51 Tarch St., Halifax, N.S.	Plat 0078
Cameron, Margaret E	Arts 2	55 Trafalgar Ave., Montreal	West. 9988
Campbell Alan Thomas	Arts 3	852 Victoria Ave., Montreal 4675-5th Ave.W., Vancouver, B.C.	West.9781W
Campbell, Chester R	Med. 3	3569 Lorne Ave., Montreal 9469 Springfield Blvd., Queens Village L.I.	Marq. 9523
Campbell, Herbert N	Grad Sch	609 Victoria Avenue, Westmount, Que.	West. 4475
Campbell, Jean G	Arts 2	Royal Victoria College, Montreal 52 Ralph St., Ottawa	Plat. 0078
Campbell, Mary L	Arts 3	609 Victoria Ave., Westmount, Que.	West. 4475
Campbell, Sarah Agnes	Grad Nurse 1	1840 Sherbrooke St. W., Montreal 11002-88th Ave., Edmonton, Alta.	Up. 9682
Cannell, Marjorie H	Arts 3	117 Aberdeen Ave., Westmount, Que.	West. 6406
Cantlon, Wm. Norman	Ap. Sci. 4	12 Park Pl., Apt. 3, Montreal	West. 8593
Cape, Gordon E	Ap. Sci. 4	53-5th Ave., Lachine, Que	Lachine 120J
Caplan, Benjamin	Arts 4	5651 Esplanade Ave., Montreal	Cres. 6007
Caplan, N. H	Arts 1	173 de l'Epee Ave., Outremont, Que.	At. 4609
Capper, Alfred H	Arts 1	4686 Westmount Ave., Westmount, Que.	West. 4784
Carbray, Francis J	Ap. Sci. 4	86 Laurier Ave. W., Montreal	Bel. 6679
Card, Lorne Campbell	Med. 4	640 Prince Arthur St. W., Montreal Melville, Sask.	Lan. 6809
Carl, Selma C	Grad Sch	2216 Tupper St., Montreal	Wil. 9204
Carlisle James	Ap. Sci. 4	465 Lansdowne Ave., Westmount, Que.	West. 5658
Carlisle, Thomas Hildred	Arts 3	465 Lansdowne Ave., Westmount, Que.	West. 5658
Carlson Leslie August	Med. 2	429 Prince Arthur St. W., Montreal 1319 South Lincoln, Denver, Colo.	Har. 0097
Carmichael William Ralph	Arts 1	2491 Knox St., Montreal	
Caron Aileen	Arts P	168 St. Catherine Road, Outremont, Que.	At. 0004
Caron Raymond	Law 2	168 St. Catherine Rd., Outremont, Que.	At. 0004
Carrier, Phil. George	Com. 2	6709 St. Denis St., Montreal	Cal. 9717M
Carroll, Lovell C	Grad. Sch	547 Lansdowne Ave., Westmount, Que.	West. 0688
Carter, Alfred Shirley	Com. 4	506 Old Orchard Ave., Montreal	Wal. 7237
Carter, Charles E. T	Arts 1	6900 Boyer St., Montreal	Cal. 7324
Carter, Eve G	Arts 3	866 Stuart Ave., Outremont, Que.	At. 5468
Casey, Patrick E. E	Arts 3	282 Regent Ave., Montreal	Wal. 2876F
Casgrain, John V	Law P	1916 Dorchester St. W., Montreal	Up. 1778
Castle, Stephen	Ap. Sci 4	Presbyterian College, 846 Ontario Ave., Montreal Niagara Falls, Ont.	Up. 9130
Cerini, John M	Arts 2	5605 Waverley St., Montreal	Cres. 4509
Chalk, Henry E	Ap. Sci. 1	4951 Western Ave., Montreal	West. 2090
Challies, George Swan	Arts 3	8 Grove Park, Westmount, Que.	West. 6562
Chalmers, George E N	Med. 2	3514 Lorne Ave., Montreal South Devon, N.B.	Marq. 6743
Chalmers, William	Grad. Sch	1277 Hebert St., Montreal 3719, 2nd Ave W., Vancouver, B.C.	
Champagne, George Albert	Ap. Sci. 2	6700 St. Valier St., Montreal	Cal. 0399
Champeau, A	Law 1	2206 Plessis St., Montreal	Amh. 1458
Chaplin, Frances Cynthia	Arts 1	4379 Westmount Ave., Westmount, Que.	West 3901

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO
Chaplin, Herbert E.	Ap. Sci. 1	341 Westhill Ave., Montreal	Wal. 6399J
Chapman, Joseph Stuart	Arts 1	1271 Dorchester St. W., Apt. 3, Montreal	Up. 5884
Chaput, Andre	Com. 3	3512 Durocher Ave., Montreal	Plat. 1318
Chaput, Marcel O.	Com. 1	3512 Durocher Ave., Montreal	Plat. 1318
Charbonneau, J. Pierre	Com. 2	3479 Shuter St., Montreal	Marq. 7413
		174 Clarence St., Ottawa, Ont.	
Chard, Harold	Arts 2	241 Elm Ave., Westmount, Que.	West.4447W
Charlap, Gregory	Law 1	397 St. Joseph Blvd. W., Montreal	At. 2995
		220 Governor St., Paterson, N.J.	
Charlewood, Charles B.	Ap. Sci. 3	3547 University St., Montreal	
		2664 Orchard Ave., Victoria, B.C.	
Cheifetz, Harry D.	Med. 4	5307 Esplanade Ave., Montreal	Cres. 8812
Chennell, Alwyn C. S.	Ap. Sci. 1	5831 Durocher Ave., Outremont, Que.	Cres. 5137
Chipman, Samuel G.	Arts 1	18 Brock Ave. S., Montreal West, Que.	Wal. 1236
Chipman, William W.	Law 1	142 Cote des Neiges Rd., Montreal	Up. 8637
Chisholm, Helen W.	Com. 2	438 Claremont Ave., Westmount, Que.	West. 8083J
		Ottawa, Ont.	
Christmas, Kenneth E.	Com. 1	3647 University St., Montreal	Plat. 5070
		St. Hilaire, Que.	Beloeil 91
Church, Chas. B. G.	Med. 3	3637 University St., Montreal	Marq. 1824
		14 Powell Ave., Ottawa, Ont.	
Church, Robert Douglas	Arts 1	1671 Sherbrooke St., Montreal	
		14 Powell Ave., Ottawa, Ont.	
Cipriani, Andre J.	Ap. Sci. 2	1808 St. Catherine St. W., Montreal	Up. 8628
		121 Henry St., Port of Spain, Trinidad, B.W.I.	
Clancy, Mary Colina	Soc. Workers 1	3630 Park Ave., Montreal	Plat. 4531
		Mulgrave, N.S.	
Clareholm, Victor	Med. 4	1485 Fort St., Montreal	Wil. 3521
Clark, Albert W.	Arts 3	3635 Lorne Crescent, Montreal	Marq. 8729
		Manawagonish Rd., Fairville, N.B.	
Clark, Annie Beatrice	Arts 1	1447 Queen Mary Rd., Montreal	West. 3759
		29 Whittier St., Amesbury, Mass.	
Clark, Doris C.	Arts 4	Apt. 31, 2015 University St., Montreal	Lan. 1709
		83 Alberta Ave., Toronto.	
Clark, Harriet P.	Arts 1	483 Victoria Ave., Westmount	West. 2482
*Clark, James R.	Ap. Sci. 2	3519 Jeanne Mance St., Montreal	Plat. 4114
		102 Grant Ave., Hamilton, Ont.	
Clarke, Bruce F.	Arts 1	55 Brock Ave., Montreal	Wal. 5157
Clarke, George F.	Ap. Sci. 3	Apt. 1, 1126 Sherbrooke St. W., Montreal	Lan. 8523
		Worthy Park, Ewarton, Jamaica, B.W.I.	
Clarke, Lillie M.	Grad. Nurse P.	6721 Drolet St., Montreal	Cal. 0339W
Clarke, Owen M.	Ap. Sci. 3	1126 Sherbrooke St. W., Montreal	Lan. 8523
		Worthy Park, Ewarton, Jamaica, B.W.I.	
Clarke, Thomas R.	Arts 1	56 Brock Ave. N., Montreal West, Que.	Wal. 5157
Clay, Clement C.	Med. 3	3467 Shuter St., Montreal	Marq. 9524
		190 Fifth St. N.W., Atlanta, Ga.	
Clayman, William	Com. 2	5247 Hutchison St., Montreal,	Cres. 6184
Clift, Erol B.	Arts 1	4673 Sherbrooke St., Montreal	West. 2667
Clinger, Orris W.	Med. 1	640 Prince Arthur St., Montreal	Lan. 6809
		Tidioute, Pa.	
Clogg, Lorna M.	Com. 1	1 Murray Ave., Montreal	West. 6185
Close, John F.	Com. 1	Strathcona Hall, Sherbrooke St. W., Montreal	Lan. 1567
		95 Matthew's Gdns., St. Leonards, Sussex, Eng.	
Clouston, Janet S.	Arts 1	521 Prince Arthur St. W., Montreal	Plat. 1522
Cobbett, Stuart A.	Com. 2	499 Oxford Ave., Montreal	Wal. 0874
Coblentz, Max	Law 1	5923 Clarke St., Montreal	Cres. 8241
Cockerton, Egbert E.	Arts 2	Springfield Park, Que.	
Cockram, W. Ewart	Arts 2	3572 Lorne Ave., Montreal	Marq. 1831
		Yeovil, Eng.	
Coddington, Rupert D.	Med. 5	3587 Shuter St., Montreal	Marq. 6830
		914 Metchosin St., Victoria, B.C.	

*Left early in session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Coffin, T. E	Arts 1	1841 St. Clement Ave., Montreal	Clair. 2251
Cohen, Abraham D	Com. 2	4109A Esplanade Ave., Montreal	Bel. 4416J
Cohen, Abraham I. F	Com. 3	4638 Jeanne Mance St., Montreal	Bel. 6214
Cohen, Arthur	Arts 1	129 St. Joseph Blvd. W., Montreal	Bel. 2336
Cohen, Arthur Elzar	Arts 3	571 Grosvenor Ave., Westmount, Que.	West. 1544
Cohen, Bernard B	Law 2	5297 Jeanne Mance St., Montreal	Cres. 1538
Cohen, George	Phar. 1	3813 Arcade St., Montreal 26 Yorke St., Glace Bay, N.S.	
Cohen, Harold	Med. 3	4009 Henry Julien St., Montreal	Plat. 2942
Cohen, Helen M	Soc. Workers 2	4462 Sherbrooke St. W., Montreal 19 Gillespie St., Sherbrooke, Que.	West. 1793
Cohen, Irwin B	Law 1	808 Cote St. Antoine Rd., Montreal	Wal. 4138
Cohen, Jason J	Arts 2	197 Grey Ave., Montreal	West. 6348
Cohen, Joseph Maxwell	Arts 3	4863 Esplanade Ave., Montreal	Bel. 4597M
Cohen, Lily	Arts P	3466 City Hall Ave., Montreal	Lan. 6648
Cohen, Lionel	Med. 4	3595 St. Famille St., Montreal	Plat. 3718
Cohen, Morris	Med. 1	4307 Esplanade Ave., Montreal	Bel. 2457
Cohen, Riva	Arts 3	571 Grosvenor Ave., Westmount, Que.	West. 1544
Cohen, Sam	Arts 1	4307 Esplanade Ave., Montreal	Bel. 2457
Cohen, Sylvia L	Arts 3	25 Rosemount Ave., Westmount, Que.	West. 5189
Cohen, William	Med. 2	3595 St. Famille St., Montreal	Plat. 3718
Coldwell, Edgar W	Arts 2	16 Shelby St., Westmount, Que	Wil. 5016
Cole, A. F. W	Grad. Sch	621 Milton St., Montreal New Liskeard, Ont.	Mar. 4493
Cole, Alfred H. P	Arts 1	4927 Western Ave., Westmount, Que.	West. 4245
Cole, Thomas M	Med. 3	2041 Metcalf St., Montreal 79 E. Broad St., Newman, Ga.	Lan. 1864
Coleman, James A	Arts 1	3605 University St., Montreal Royal Alexandra Hotel, Winnipeg, Man.	Marq. 3101
Collard, Edmund G	Arts 3	390 West Hill Ave., Montreal	Wal. 1707
Colley, Edith D	Arts 2	Apt. No. 3, 396 Grosvenor Ave., Westmount, Que	West. 7495
Collie, Amy Milne	Arts 4	Royal Victoria College, Montreal Montmagny, Que.	Plat. 0078
Collins, Fred G	Com. 3	453 Wiseman Ave., Outremont, Que	At. 2633
Collins, Gerald Mullen	Com. P	446 Lansdowne Ave., Westmount, Que	West. 3635
Collins, T. Garnet	Ap. Sci. 3	3535 Shuter St., Montreal 14 River Rd., Ottawa, Ont.	Plat. 1743
Colquhoun, Dorothy R	Arts 2	548 Prince Arthur St., Montreal 231 St. Maurice Rd., Three Rivers, Que.	Plat. 5054
Coman, Dale Rex	Med. 2	3605 St. Famille St., Montreal Wakefield, R.I.	Har. 3730
Conklin, Harold E	Com. 3	1530 Barnard Ave., Outremont, Que.	At. 1961
Connell, F. R	Med. 4	539 Pine Ave., Montreal 72 Sydney St., St. John, N.B.	Marq. 7818
Conner, Howard	Ap. Sci. 2	3485 McTavish St., Montreal 32 Queen St., Sherbrooke, Que.	Marq. 2720
Conroy, James B	Arts 2	561 Connaught St., Montreal	Wal. 6705
Conroy, Lawrence W	Arts 1	2005 Mansfield St., Apt. 1, Montreal	Lan. 5749
Conroy, Marcelle C	Arts 1	2005 Mansfield St., Montreal	Lan. 5749
Cook, John B	Arts 1	3523 Lorne Ave., Montreal	Marq. 6913
Cooke, Arthur S	Arch 4	85 Notre Dame de Grace Ave., Montreal	Wal. 8699
Coolican, Denis M	Ap. Sci. 1	1545 McKay Street, Montreal 21 Linden Terrace, Ottawa, Ont.	Up. 6610
Cooper, Blema	Arts 2	680 Outremont Ave., Outremont, Que.	At. 3702
Cooper, Charles E	Med. 1	3529 University St., Montreal 2100 Ravenna Blvd., Seattle, Wash.	Marq. 9031
Cooper, Douglas L. P	Grad. Sch	1228 Crescent St., Apt. 19, Montreal 43 S. Park St., Halifax, N.S.	Up. 6492F
Cooper, Lawrence O'Toole	Ap. Sci. 4	1022 Sherbrooke St. W., Montreal Schumacher, Ontario	Plat. 6482
Cooper, Samuel R	Arts P	3506 University St., Montreal	Marq. 2055

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Coperman, Colin H.	Arch. 5	608 Victoria Ave., Montreal	West. 3814
Coplan, Louis	Com. 4	3505 Lorne Ave., Montreal	Marq. 2849
		116 York St., Ottawa, Ont.	
Copnick, Irving	Dent. 1	4018 City Hall Ave., Montreal	Lan. 9904
Copping, Gordon A.	Med. 5	504 Lansdowne Ave., Westmount, Que.	West. 5684
Corbet, A. A. Gordon	Med. 4	3449 Hutchison St., Montreal	Lan. 2833
		64 Coburg St., St. John, N.B.	
Corby, William John	Com. 1	3567 Hutchison St., Montreal	Plat. 0363
		Britannia Heights, Ottawa, Ont.	
Corcoran, Arthur C.	Med. 1	3660 Lorne Crescent, Montreal, Apt. 18	Marq. 2596
Cornell, Douglas A.	Arts 1	650 Grosvenor Ave., Westmount, Que.	West. 0051
Cornell, Evelyn R.	Com. 4	650 Grosvenor Ave., Westmount, Que.	West. 0051
Cornell, Latham D.	Arts 1	253 Hingston Ave., Montreal	Wal. 1231
Cornwall, Annie Ruth.	Soc. Workers 1	Apt. 51, 1554 Stanley St., Montreal	Fal. 1288
		Hantsport, Hants Co., N.S.	
Cosser, Walter G.	Ap. Sci. 4	3592 University St., Montreal	Marq. 4479
		Box 187, Schumacher, Ont.	
Cossman, Eva E.	Arts 1	318 Northcliffe Ave., Montreal	Wal. 6085
Costello, Herbert M.	Arts 3	5443 Jeanne Mance St., Montreal	Cres. 3734
Costom, David	Med. 5	481 Melrose Ave., Montreal	Wal. 1417
Cotler, Nathan	Law 3	3922 Henri Julien St., Montreal	
Couper, William M.	Med. 2	779 Upper Roslyn Ave., Westmount, Que.	West. 5943
Courville, Albert L.	Med. 5	3455 Hutchison St., Montreal	Plat. 1712
		8 Marlborough St., Cornwall, Ont.	
Cousens, Kingsley E.	Com. 3	3434 McTavish St., Montreal	Up. 8663
		188 Stewart St., Ottawa, Ont.	
Coussirat, John H.	Com. 1	1022 Sherbrooke St. W., Montreal	Plat. 6482
		60 Hicks St., Brooklyn, N.Y.	
Covicy, Harry	Phar. 4	1060 Van Horne Ave., Apt. 3, Outremont, Que.	At. 5576
Cowan, George G.	Ap. Sci. 1	3506 University St., Montreal	Marq. 2055
		Topsail Rd., St. Johns, Nfld.	
Coyle, Edith T.	Arts 3	1172 Forfar St., Montreal	
Crabtree, Dorothy L.	Arts 1	768 Cote St. Antoine Rd., Montreal	Wal. 6263
Crabtree, Herbert K.	Com. 2	46 Curzon St., Montreal West, Que.	Wal. 3609
Crabtree, Mona V.	Arts 4	46 Curzon St., Montreal West, Que.	Wal. 3609
Craft, George	Arts 2	4867 Hutchison St., Montreal	At. 0647W
Craick, Marion B.	Arts 3	3454 University St., Montreal	Marq. 2610
		60 Lympstone Ave., Toronto, Ont.	
Craig, Beulah F.	Com. 2	Royal Victoria College, Montreal	Marq. 2610
		Port Colborne, Ont.	
Craig, Carleton	Arts 4	538 Prince Arthur St., Montreal	Marq. 2740
		309 Somerset St., Ottawa.	
Craig, Gibson E.	Com. 2	3581 University St., Montreal	Marq. 3842
		Carleton Place, Ont.	
Craimer, Harry	Com. 1	3440 St. Dominique St., Montreal	
Crain, Reginald A.	Ap. Sci. 3	3647 University St., Montreal	Marq. 2806
		285 Clemow Ave., Ottawa, Ont.	
Cramer, Harry I.	Arts 1	3438 St. Dominique St., Montreal	Marq. 2720
Crawford, George E.	Law 1	1492 Bishop St., Montreal	Up. 6059
		St. Stephen, N.B.	
Crawford, James M.	Grad. Sch.	106 Lewis Ave., Westmount, Que.	West. 7762W
		Howick, Que.	
Crawford, Robert C.	Arts 1	734 Upper Lansdowne Ave,, Westmount. Que.	West. 1839
Creelman, Robt. C.	Arts P	3485 McTavish St., Montreal	Marq. 2720
		Box 458, Truro, N.S.	
Creighton, Carroll C.	Med. 2	640 Prince Arthur St. W., Montreal	Lan. 6809
		1202 E. Thomas Rd., Phoenix, Ariz.	
Crestohl, Abram H.	Com. 1	4550 Hutchison St., Montreal	At. 2306F
Crighton, Marjorie E.	Arts 4	3641 Oxenden Ave., Montreal	Marq. 1525
Cripps, Samuel	Arts 3	1027 Laurier Ave. W., Outremont, Que.	
Crombie, Jean B.	Lib. Sch.	526 Magdalen St., Montreal	York 4108F
Cropper, James P. E.	Ap. Sci. 3	3667 Jeanne Mance St., Montreal	
		Kingstown, St. Vincent, B.W.I.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Cross, Douglas H	Arts 1	3581 University St., Montreal 80 Montreal St., Sherbrooke, Que.	Marq. 3842
Cross, William H	Com. 1	892 Sherbrooke St. W., Montreal Uplands, Victoria, B.C.	Lan. 8505
Crosslow, Charles W	Ap. Sci. 3	1445 Metcalfe St., Montreal Barrie, Ont.	Lan. 9982
Crown, Ernest H	Com. 2	6643 St. Hubert St., Montreal	Cres. 1216
Crozier, Leigh J	Arts 4	3485 McTavish St., Montreal Darnley, P.E.I.	Marq. 2720
Crutchlow, E. F	Arts 1	660 Lansdowne Ave., Westmount, Que.	West. 6843
Cuddihy, Basil R	Med. 5	24 Elmwood Ave., Outremont	At. 1655
Cuddihy, E. G. L	Arts 1	22 Robert Ave., Outremont, Que	At. 7585
Cullen, Bernard L	Med. 4	3455 Hutchison St., Montreal 112 Fulton St., Auburn, N.Y.	Plat. 1712
Cummings, Vincent P	Med. 4	2007 Mansfield St., Montreal 24 Frederick St., N. Adams, Mass.	Marq. 4513
Cunliffe, Mary	Arts 2	282 De l'Epée Ave., Outremont, Que.	At. 0991
Cunningham, Harold E	Ap. Sci. 3	455 Elm Ave., Westmount, Que	West.7708W
Cunningham, Janet S	Phy. Ed. 2	3466 University St., Montreal 92 Sailly Ave., Plattsburg, N.Y.	Marq. 2608
Curren, Levi A	Med. 5	539 Pine Ave., Montreal 157 Maine Ave., Millinocket, Me.	Marq. 7818
Currie, Cecil	Arts 2	3506 University St., Montreal Britannia, Trinity Bay, Nfld.	Marq. 2055
Currie, G. O	Arts 1	3450 McTavish St., Montreal	Up. 4053
Curtis, L. A. D	Arts 2	3506 University St., Montreal Blackhead, Nfld.	Marq. 2055
Cushing, Dorothy M	Arts 1	118 Westmount Blvd., Westmount, Que.	West. 2699
Dahlgren, Carl A	Med. 4	539 Pine Ave. W., Montreal 20 Gladstone Ave., W. Concord, N.H.	Marq. 7818
Dainow, Henry	Com. 1	5149 Park Ave., Montreal	Cres. 3392
Dale, Anna C	Arts P	1210 Pine Ave., Montreal	Up. 3525
Dale, C. R	Arts 3	1210 Pine Ave., Montreal	Up. 3525
Daley, Louis W	Med. 5	3419 University St., Montreal 875 Lafayette Ave., Buffalo, N.Y.	Marq. 3089
Dancey, Travis E	Med. 1	3661 Mance St., Montreal Aylmer, Ont.	Har. 7389
Dangerfield, G. F	Theol. 1	3506 University St., Montreal Kemptville, R.R. No. 5, Ont.	Marq. 2055
Daniels, Francis R	Com. 4	4190 Avenue Rd., Westmount, Que.	West. 3447
Daniels, James T	Dent. 1	3419 University St., Montreal 2424 Frisby Ave., New York City.	Marq. 3089
Darby, Gladys M	Arts 1	3442 Jeanne Mance St., Montreal 144 Seaman Ave., N.Y.C.	
Darling, Felice	Phy. Ed. 1	175 Chester Rd., Town of Mt. Royal, Que.	
Davidovitch, Saul M	Arts 2	3423 City Hall Ave., Montreal	Lan. 3571
Davidson, Gordon	Law 2	3637 University St., Montreal	Plat. 2681
Davidson, John A	Med. 2	626 Murray Hill, Westmount, Que.	West. 6836
Davidson, Walter M	Arts 3	3454 Peel St., Montreal	Up. 6788
David, Charles Wesley	Arts 2	630 Grosvenor Ave., Westmount, Que.	West. 5449
Davies, Thos. R.,	Theol. 3	3506 University St., Montreal	Marq. 2055
Davis, E. James	Arts P	3506 University St., Montreal Freshwater, Nfld.	Marq. 2055
*Davis, Eric S	Ap. Sci. Par. 3	3637 University St., Montreal MacLeod, Alta.	Plat. 2681
Davis, Frederick E	Arch. 2	3473 University St., Montreal Compton Station, Que.	Plat. 0720
Davis, H. Weir	Law 2	4041 Dorchester St. W., Montreal	West. 5716
Davis, Murray R	Com. 1	Strathcona Hall, Montreal Simcoe, Ontario	Lan. 1567
Davis, Philip Taft	Com. 2	80 Westmount Blvd., Westmount, Que. 57 Duke St., Ottawa, Ont.	West. 0184
Davison, Charles D	Arch. 1	1496 Bishop St., Montreal Bridgewater, N.S.	

*Left early in the session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Dawe, Herven Maxwell	Arts 2	3506 University St., Montreal Cupids, Nfld.	Marq. 2055
Dawes, Chas. H	Theol. 3	Ste. Anne de Bellevue, Que	
Dawson, Isabel G	Arts 1	21 Bellevue Ave., Westmount, Que	West. 0746
Dawson, Katherine H	Med. 4	21 Bellevue Ave., Westmount, Que	West. 0746
Dawson, Raymond J	Med. 2	2011 McGill College Ave., Montreal 16 Granite St., Methuen, Mass.	Lan. 4807
Day, John Jessup	Med. 4	Apt. 21, 29 Cote des Neiges Rd., Montreal 280, 44th Ave., Lachine, Que.	Up. 8504
Daykin, Charles E	Med. 2	United Theological College, 3506 University St., Montreal 481 Gladstone Ave., Ottawa, Ont.	Marq. 7265
Dechaux, Edgar J	Arts 1	779 Wilder Ave., Montreal	At. 4983
deLalla, Emanuel	Med. 3	640 Prince Arthur St. W , Montreal 704 Bleecker St., Utica, N.Y.	Lan. 6809
deMontigny, Raimbault M. A.	Ap. Sci. 3	367 Sherbrooke St. W., Montreal 401 Daly Ave., Ottawa, Ont.	Lan. 2979
Denenberg, Benjamin	Dent. 2	4118 Clarke St., Montreal	Plat. 0679
Denis, Frank T	Ap. Sci. 2	3556 Shuter St., Montreal 130 Maple Ave., Quebec, Que.	Marq. 8788
Denniston, Margaret J	Grad. Nurse P	Western Hospital, Montreal Clunty Mullen, Rathowen, Co. Longford, Ireland	Wil. 6855
Denny, Denison	Ap. Sci. 4	3433 Peel St., Montreal 191 Chelmsford Rd., Durban, S. Africa	Up. 2143
Denton, Ronald Lyman	Arts 1	542 Old Orchard Ave., Montreal	Wal. 1506
De Prume, F. J	Med. 4	3556 Jeanne Mance St., Montreal 29 West 87th Street, New York, N.Y.	Plat. 1361
Derrick, Eugene Dewar	Med. 4	Milton Apts., Apt. 24, 251 Milton St., Montreal, Cambridge, New York, N.Y.	Lan. 2804
Des Barres, Marie L	Grad. Nurses 1	Western Hospital, Montreal Guysborough, N.S.	Wil. 6855
Deskin, Sydney Saul	Com. 4	6096 Durocher St., Montreal	At. 3255M
DeSmit, Raymond W	Med. 1	3485 McTavish St., Presbyterian College, Montreal 1632 Hudson Ave., Rochester, N.Y.	Marq. 2720
D'Esopo, Joseph N	Med. 4	3534 University St., Montrea 33 Elm St., Hartford, Conn.	Marq. 3448
Detlor, W. Lyall	Arts 4	79 Somerville Ave., Westmount, Que.	Wal. 8055
Dever, Walter G	Ap. Sci. 1	3556 St. Famille St., Montreal	Plat. 7383
Devitt, Harold E.	Arch. 2	1205 Crescent St., Montreal 235 Fourth St. E., Cornwall, Ont.	Up. 0806M
Devitt, Harry Bishop	Com. 2	1205 Crescent St., Apt. 40, Montreal. 235 Fourth St. E., Cornwall, Ont.	Up. 0806M
DeZwirek, Louis A	Law 2	842 McEachran Ave., Outremont, Que.	At. 1634
Dick, Robert N	Med. 3	3442 Durocher Ave., Montreal Britannia Beach, B.C.	Marq. 8838
Dickenson, Gertrude J	Arts 3	Chateauguay Basin, Que	
Dickey, Cecil Howard	Med. 5	772 Sherbrooke St., Montreal Perdue, Sask.	Plat. 1567
Dike, Mary Elizabeth	Arts 2	5217 Sherbrooke St. W., Montreal	Wal.0126J
Dinan, John James	Med. 1	3592 University St., Montreal 39 D'Auteuil St., Quebec City	Marq. 4479
Dinovitzer, Oscar	Phar. 3	619 Old Orchard Ave., Montreal	Wal. 9362
Diplock, James P	Law 1	68 Forden Ave., Westmount, Que	West. 4381
Ditkofsky, Harry	Arts 1	4455 City Hall Ave., Montreal	
Dixon, Gerald Harris	Arts 3	219 Wilson Ave., Montreal	Wal. 0619
Dixon, Paul R. B	Arts 1	3419 University St., Montreal Meadowbank Rd., Sound Beach, Conn.	Marq. 3089
Dobbin, Davin Crawford	Ap. Sci.4	31 Grey Ave., Montreal	Wal. 5304
Dobbin, Phyllis Ethel	Arts 4	31 Grey Ave., Montreal	Wal. 5304
Doberer, Donald	Com. 4	1198 Mountain St., Montreal 1505, 25th Ave. W., Calgary, Alta.	Up. 2228
Dodd, John Gordon	Com. 2	581 Lansdowne Ave., Westmount, Que.	West. 2296
Dodds, Margaret Ruth	Arts 2	1321 Sherbrooke St. W., Montreal	Up 5878

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Doherty, D'Arcy Manning	Com. 3	3637 University St., Montreal 293 Russell Hill Rd., Toronto, Ont.	Plat. 2681
Doig, Howard Andrew	Arts 3	176 Marcil Ave., Montreal	Wal. 3455M
Doig, Melbourne A	Arts 2	Hampton Court Apts., Mountain St. Montreal	Up. 5599
Donald, Henry G	Grad. Sch	1523 Crescent St., Montreal	Up. 1759
Donoghue, Kathleen E	Arts 3	Royal Victoria College, Montreal. Weston, Ontario (Greystones).	Plat. 0078
Donohue, Arthur Timothy	Dent. 2	3589 St. Famill (St., Montreal	Plat. 2676
Doody, Hubert	Arts 2	3473 University St., Montreal 114 St. John's Rd., Cannock, Staffs., Eng.	Marq. 4902
Dooley, William Forrest	Ap. Sci. 1	827 Outremont Ave., Outremont, Que.	At. 0333
Doolittle, Doris Helen	Arts 4	769 Cote St. Antoine Rd., Montreal.	Wal. 0152
Doran, Harold James	Arch. 4	5593 Hutchison St., Montreal	Cres. 1674
Doran, Margaret E	Arts 1	24 Springfield Ave., Westmount, Que.	West. 3446
Dorfman, Dorah	Arts 3	151 Marlowe Ave., Montreal	Wal. 0371F
Dorken, Robert W	Ap. Sci. 1	57 Summit Crescent, Montreal	West. 4283
Dougan, Travis S	Med. 1	3578 University St., Montreal Harvey Station, N.B.	Marq. 1074
Douglas, Virginia V	Arts P	Haddon Hall Apts., Sherbrooke St., Montreal	
Doull, Margaret D. C	Arts 3	Royal Victoria College, Montreal Vernon, B.C.	Marq. 2610
Dow, Ruth Paterson	Med. 2	4643 Sherbrooke St. W., Montreal.	West. 0905
Dowd, James Lewiston	Phar. 3	522 Park Ave., Apt. 4., Montreal. 13 Third Ave., Ottawa, Ont.	Cres. 3768
Downey, Arthur	Arts 1	70 Cardinal Ave., St. Laurent, Que.	By. 1819
Downing, John Chesley	Arts P	1174 St. Mark St., Apt. 60, Montreal. Windsor, N.S.	Wil. 7849
Downing, John C	Theol. P. G.	Farnham, Que.	
Doyle, John de Veer	Dent. 3	3630 Durocher St., Montreal 8 Rowe St., Roslindale, Mass.	Marq. 4363
Doyle, Lillian A	Arts 1	218 Brixton Ave., St. Lambert, Que.	St. Lam. 673
Doyle, Margaret E	Arts 3	42-32nd Ave., Lachine Que.	Lach. 534
Draper, Leslie M	Arts 3	9 Highland Ave., Montreal	West. 0608
Drew, Charles R	Med. 2	3580 Durocher St., Montreal Rosslyn, Virginia.	Plat. 7422
Dryden, Reginald N	Arts P	3506 University St., Montreal 81 Proter Rd., Johannesburg, S.A.	Marq. 2055
Drysdale, Harold Raymond	Med. 2	2020 Victoria St., Montreal Apt. 7. 253 Rosedale St., Rochester, N.Y.	Lan. 5931
DuBois, Anne Marie M	Arts 2	488 Argyle Ave., Westmount, Que.	West. 6686W
DuBois, John Henry	Com. 2	488 Argyle Ave., Westmount, Que.	Wes. 6686W
Dubois, Joseph G	Med. 2	3520 Park Ave., Montreal Chipman, N.B.	Plat. 5503
DuBoyce, Roslyn M. H	Law 1	1025 Sherbrooke St. W., Montreal. Richmond, Que.	Up. 4418
Duder, Rudolph	Arts 2	United Theological Col., 3506 University St., Montreal St. John's, Nfld.	Marq. 2055
Dufresne, Romeo	Dent. 4	301 St. Louis Sq., Montreal 243 Girouard St., St. Hyacinthe, Que.	Har. 7416
Dugan, Doris Estelle	Arts 3	5908 Park Ave., Montreal	Cres. 6025
Dugdale, Frederick E	Med. 2	3514 Lorne Ave., Montreal 12 Victoria St., Lowell, Mass.	Marq. 6743
Duke, Denis de S	Com. 4	3547 University St., Montreal 1216 Beach Drive, Victoria, B.C.	Marq. 6915
Dukelow, Cecil Angus	Arts 1	3506 University St., Montreal Winchester, Ont.	Marq. 2055
Dumaresq, Frances M	Arts 3	10658 Delorimier Ave., Montreal	Cal. 2888J
Dumbell, George H	Com. 3	5926 Jeanne Mance St., Montreal.	Cres. 6783
Duncan, John Alexander, Jr	Med. 2	3529 University St., Montreal 2601 Cascadia Ave., Seattle, Wash.	Marq. 9031
Dunlop, George Henry	Arts 4	3506 University St., Montreal Yarmouth Centre, Ont.	Marq. 2055
Dunlop, James Russell	Ap. Sci. 2	1126 Sherbrooke St. W., Apt. 1, Montreal 184 Primrose Ave., Ottawa, Ont.	Lan. 8523

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Dunlop, Robert J. F	Ap. Sci. 2	1445 McGill College Ave., Montreal St. Agnes de Dundee, Que.	Lan. 6358
Dunlop, William P	Arts 1	37 Brock Ave N., Montreal West, Que.	Wal. 1854
Dunn, Arthur F	Med. 5	3575 Jeanne Mance St., Montreal St. Thomas, Ont.	Plat. 0766
Dunn, Richard Berry	Med. 2	539 Pine Ave., Montreal 18 Cook Ave., Jamestown, N.Y.	Up. 9173
Dunn, W. Kenneth	Arts 4	1441 Drummond St., Montreal 1752 Euclid St., N.W., Washington, D.C.	Marq. 8331
Dunne, Charles V	Ap. Sci. 1	Somerset Apts., 2075 Comte St., Apt. 4, Montreal 56 College Ave., Ottawa, Ont.	
Dunne, Margaret G	Lib. Sch.	460 Decarie Blvd., Apt. 14, Montreal 27 Melgund Ave., Ottawa, Ont.	Wal. 8769W
Dunning, Herbert A	Med. 2	1090 Beaver Hall Hill, Montreal 91 Florence St., Otrawa, Ont.	Lan. 7947
Dunphy, John	Med. 5	Shriner's Hospital, Cedar Ave., Montreal 196 Circular St., Saratoga Spgs., N.Y.	Up. 6121
Dunton, Arnold D	Arts 1	51 Trafalgar Ave., Montreal	West. 2494
Dupont, Charles T	Ap. Sci. 3	3433 Peel St., Montreal c/o The Royal Trust Co., Victoria, B.C.	Up. 2143
Dussault, Maurice	Ap. Sci. 1	216 Montclair W., Montreal 48 Fraser St., Levis, Que.	
Duval, Henry Percy	Ap. Sci. 1	39 Victoria St., St. Johns, Que	St. Johns 102
Dwyer, John Norman	Ap. Sci. 2	371 St. Joseph Blvd. W., Montreal	At. 3314
Dwyer, William H	Com. 1	650 Roslyn Ave., Westmount	West. 0113
Dykes, James B	Ap. Sci. 1	37 Glencoe Ave., Outremont, Que	At. 1762
Dykes, Margaret C	Arts 2	37 Glencoe Ave., Outremont, Que	At. 1762
Eakin, William R	Arts 3	572 Roslyn Ave., Westmount, Que.	West. 1498
Eaman, Stanley G	Med. 4	36 Charron St., Montreal	Wil, 4564
Eardley, Kenneth John R	Med. 1	772 Sherbrooke St. W., Montreal 270 MacLaren St., Ottawa, Ont.	Lan. 1567
Eaves, Florence E	Arts 3	635 Murray Hill, Westmount, Que.	West. 1879
Eaves, Gladys L	Arts 3	198 Cote St. Antoine Rd., Westmount, Que.	West. 1167
Eaves, Wynifred E	Arts 3	635 Murray Hill, Westmount, Que.	West. 1879
Ebbett, George H	Arts 2	3592 University St., Montreal 10 Charles, Houlton, Me.	Up. 9109
Ebitt, Stuart N	Com. 2	4731 Western Ave., Westmount, Que.	West. 5907
Eberts, Edmond H	Law 2	3575 Peel St., Montreal	Up. 1493
Echlin, Francis Asbury	Med. 4	3605 University St., Montreal 347 Daly Ave., Ottawa, Ont.	Plat. 0354
Edgar, William S	Grad. Sch	580 Notre Dame de Grace Ave., Montreal	
Edington, Archibald M	Arts 2	620 Wilson Ave., Montreal	Wal. 4108
Edmison, John A	Law 2	3581 University St., Montreal 78 Hogarth Ave., Toronto. Ont.	Marq. 3842
Edson, Doris Adele	Arts 4	362 Hingston Ave., Montreal	Wal. 0326
Edson, E. Allan M	Arts 3	362 Hingston Ave., Montreal	Wal. 0326
Edwards, Nina K	Phy. Ed. 1	3466 University St., Montreal Lake Linden, Mich.	Marq. 2608
Eibel, Philip	Med. 2	6155 Durocher Ave., Outremont, Que.	At. 5125W
Eidinger, Samuel L	Med. 1	4319 Esplanade Ave., Montreal	Bel. 4022
Ein, Celia	Arts 3	41 Chesterfield Ave., Montreal	West. 8572
Ein, Fanny	Music 1	41 Chesterfield Ave., Westmount, Que.	
Einbinder, Harry	Med. 2	376 Fairmount St. W., Montreal	Cres. 3601
Elias, Leo Saul	Com. 2	52 Bagg Ave., Montreal	Plat. 1644
Eliasoph, Milton	Arch. 3	42 Sunset Ave., Outremont, Que	At. 7789
Elimeleck, Issie	Phar. 1	4084 Laval Ave., Montreal	Bel. 9047
Elkin, Seymour	Arts 4	45 Chesterfield Ave., Westmount, Que.	West. 6095
Elliott, Harold W	Arts 3	3454 Peel St., Montreal P.O. Box 106 Cache Bay, Ont.	Up. 6788
Elliott, Kathleen M	Med. 1	1091 Decarie Blvd., Montreal	Wal. 1265

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Ellis, Audrey Lee	Phy. Ed. 1	3128 Westmount Blvd., Westmount, Que.	West. 4781
Ellis, David E	Ap. Sci. 3	3434 McTavish St., Montreal 35 Lakeside Drive, Ottawa, Ont.	Up. 8633
Ellis, George H	Med. 1	3485 McTavish St., Montreal 1893 Davenport Rd., Toronto, Ont.	Marq. 2720
Ellis, Harold S	Med. 5	3698 St. Famille St., Montreal Lashburn, Sask.	Har. 3792
Ellsworth, Herman C	Med. 1	640 Prince Arthur St. W., Montreal Bangor, N.Y.	Lan. 6809
Embregts, John Arthur	Ap. Sci. 4	3504 Park Ave., Apt. 5, Montreal 89 Berthelat St., Quebec, Que.	Marq. 6590
Engelke, M. Evelyn	Grad. Nurses	4620 St. Catherine St., Westmount, Que.	West. 3766
Epstein, Francis J	Arts 1	43 Cornwall Ave., Town of Mt. Royal, Que.	At. 0241
Epstein, Harry Hyman	Med. 5	2059 Peel St., Montreal 236 Herzl St., Brooklyn, N.Y.	Lan. 0704
Epstein, Louis	Dent. 2	4519 Hutchison St., Montreal	At. 3096F
Erdrich, Harold J	Law 2	3492 St. Famille St., Montreal	Har. 3951
Erlick, George E	Arts 3	4464 City Hall Ave., Montreal	Lan. 6671
Erlick, Max H	Dent. 3	5260 Hutchison St., Montreal	Cres. 7341
Erskine, Gordon W	Arts 1	574 Congregation St., Montreal	
Esmond, Douglas C	Ap. Sci. 1	3592 University St., Montreal 867 Bruce Ave., Windsor, Ont.	
Essery, Margaret Louise	Arts 2	4259 Delorimier Ave., Montreal	Amh. 1769
Estall, Henry M	Arts 4	Strathcona Hall ,Sherbrooke St. W., Montreal 236 Wood Ave , Montreal.	Lan. 1567
Estano, Verne W. T	Com. 1	71 Arlington Ave., Westmount, Que.	West. 8034
Etheart, Maurice M	Arts P	303 St. Joseph Blvd. E., Montreal 1610 Rue du Centre, Port au Prince, Haiti.	Bel. 0023
Etziony, Mordecai	Grad. Sch	4124 Henri Julien Ave., Montreal	Bel. 0782W
Evans, Alexander M	Med. 3	3637 University St., Montreal 3775 Pender St. E., Vancouver, B.C.	Plat. 2681
Evans, Delano E	Ap. Sci. 4	1464 Mansfield St., Apt. 1, Montreal	Lan. 2058
Evans, Edward N	Ap. Sci. 3	352 Kitchener Ave., Westmount, Que.	West. 5371
Evans, Gerald T	Med. 4	3662 Laval Ave., Montreal 2626 W. 36th Ave., Vancouver, B.C.	Lan. 2054
Evans, Jean Margaret	Arts P	49 Westmount Blvd., Montreal	
Evans, Joseph P	Grad. Sch	Dept. of Neurosurgery, Royal Victoria Hospital, Montreal 121 So. 13th St., Lacrosse, Wis.	Plat. 1251
Evans, Marie E	Arts 3	Royal Victoria College, Montreal 10 Ruskin Row, Winnipeg, Manitoba.	Plat. 0078
Evans, Philip N	Ap. Sci. 1	352 Kitchener Ave., Westmount, Que.	West. 5371
Evans, Robert S	Ap. Sci. 1	538 Prince Arthur St. W., Montreal	Plat. 3624
Eve, Richard S	Arch. 4	3564 University St., Montreal 10 Ruskin Row, Winnipeg, Man.	Marq. 3466
Evelyn, Kenneth Austin	Ap. Sci. 1	3479 Shuter St., Montreal Duncans, Jamaica, B.W.I.	Marq. 7413
Fagan, John W	Med. 5	3467 Shuter St., Montreal 165 Summer St., Fitchburg, Mass.	Marq. 9524
Fairbairn, Margaret E	Arts 3	7 Ingleside Ave., Westmount, Que.	West.4366W
Farmer, Thomas D. F	Med. 4	640 Prince Arthur St. W., Montreal Bristol, Conn.	Lan. 6809
Farquharson, Hugh M	Arts 3	67B Prospect St., Westmount, Que.	West. 6840
Faulkner, George V	Med. 1	3609 University St., Montreal 101 Bridge St. E., Belleville, Ont.	Marq. 4300
Fee, James E	Arts P	534 Prince Arthur St. W.	
Feigenbaum, Louis W	Arts 3	425 Ed. Charles, Apt. 4, Montreal	At. 5028W
Feiner, Abraham	Arts 4	1473 Dorion St., Montreal	Cher. 6613
Feller, Jacob	Med. 2	2026 McGill College Ave., Montreal 256 Stewart St., Ottawa, Ont.	Lan. 8610
Ferguson, Allan A	Ap. Sci. 3	418 Prince Arthur St. W., Montreal Pictou, N.S.	Har. 9580
Ferguson, John G	Ap. Sci. 1	772 Sherbrooke St. W., Strathcona Hall, Que. 105 Goulbourne Ave., Ottawa, Ont.	Lan. 1567

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Ferneyhough, Beatrice C	Arts 4	3617 Oxenden Ave., Montreal	Plat. 4989
Fineberg, Moe	Phar. 2	4334 St. Urbain St., Montreal	Bel. 2656M
Finestone, Bernard	Arts 1	4436 St. Catherine St., Westmount, Que.	West. 8400
Fisk, George M	Arch. 5	506 Pine Ave. W., Montreal	Plat. 1076
Fisk, Guy H	Med. 2	86 Maple Ave., St. Lambert, Que.	St.Lam. 1235
Fiske, Reginald E	Arts 2	3534 University St., Montreal	Plat. 6979
		North River Rd., Manchester, N.H.	
Fitch, Benjamin	Arts 4	5043 Jeanne Mance St., Montreal	Bel. 6321W
Fitzgerald, Frederick W	Med. 2	539 Pine Ave. W., Montreal	Marq. 7818
		Grand Falls, Nfld.	
Fitzgerald, William W	Med. 4	2041 Metcalfe St., Montreal	Lan. 1864
		74 Beechwood Terrace, Yonkers, N.Y.	
Fitzhugh, William McPherson, Jr	Med. 2	3534 University St., Montreal	Marq. 3448
		2350 Broadway, San Francisco, Cal.	
Fitzsimons, William	Arts 2	Presbyterian College, Montreal	Marq. 2720
		Pembroke, Ont., R.R. 5.	
Flanders, Sidney H	Com. 1	6046 Durocher Ave., Montreal	At. 1586J
Flanz, Molly	Arts 4	223 St. Joseph Blvd. W., Montreal	Bel. 9667
Fleishman, Maurice H	Phar. 2	17 St. Catherine Rd., Apt. 6, Montreal	At. 7372W
Fleming, Allan J	Med. 3	1462 Guy St., Montreal	Up. 5073
		146 Montrose St., Winnipeg, Man.	
Fleming, Donald S	Arts 2	519 Marcil Ave., Montreal	Wal. 1790
Fleming, Marjory	Grad. Nurses 1.	Y.W.C.A., 3429 St. Famille St., Montreal	Plat. 6807
		20 Argyle Court, Calgary, Alta.	
Flett, Aileen	Grad. Nurses P.	4039 Tupper St., Montreal	West. 9000
		Oakwood, Ontario	
Flint, Dorothy M. V.	Grad. Nurses P.	Montreal General Hospital, Montreal.	Lan. 4101
		Stanstead, Que.	
Flynn, Edmund L	Ap. Sci. 1	1387 Burd Ave., St. Louis, Mo	
Fogarty, William P	Ap. Sci. 3	461 Sherbrooke St. W., Apt. 3, Montreal	
Foote, William Rodgers	Med. 1	3513 Park Ave., Montreal	Plat. 2354
		1546-12th Ave. W., Vancouver, B.C.	
Foran, Philip F	Law 3	3511 Lorne Ave., Montreal	Marq. 9846
		147 Wilbrod St., Ottawa, Ont.	
Forbes, Gordon Ross	Com. 1	Strathcona Hall, Montreal	Lan. 1567
		111 Powell Ave., Ottawa, Ont.	
Forbes, Jean McNeil	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		111 Powell Ave., Ottawa, Ont.	
Ford, Olive R	Arts 1	203 Lesperance St., St. Lambert, Que.	St.Lam.409J
Ford, Robert G	Arts 2	3506 University St., Montreal	Marq. 2055
		Portneuf Station, Que.	
Ford, Wm. Maxwell	Arts 4	203 Lesperance St., St. Lambert, Que.	St.Lam.409J
Forsyth, George L	Arts 3	Strathcona Hall, Montreal	Lan. 1567
		Simcoe, Ontario	
Forsythe, Albert E	Med. 5	3263 St. Antoine St., Montreal	Plat. 6528
		Port Antonio, Jamaica, B.W.I.	
Fortin, Eugene C	Ap. Sci.	206 Gray Ave., Montreal	Wal. 2523
Fosbery, Eileen F	Arts 4	84 Grand Blvd., Montreal	Wal. 8342F
Foster, Alexander	Com. 1	629 Victoria Ave., Westmount, Que.	West. 4451
Foster, Frances M	Arts 1	44 Anwoth Rd., Westmount, Que.	West. 4080
Foster, Francis G. C	Arts 1	1019 Sherbrooke St. W., Montreal	Up. 7913
Foster, Ian McLeod	Arts 1	1437 McGill College Ave., Montreal	Lan. 7036
Fournier, Claude J	Med. 3	3495 Hutchison St., Montreal	Plat. 2755
		249 Cedar St., Sudbury, Ont.	
Fournier, Maurice M	Arts P	825 Duluth St. E., Montreal	Bel. 7356F
Fowler, Hanford McKee	Arts 3	1528 Crescent St., Montreal	Up. 8083
		279 Regent St., Fredericton, N.B.	
Fraid, Dorothy	Arts 3	438 Strathcona Ave., Westmount, Que.	West. 8166
Francis, John B	Ap. Sci. 4	419 Mount Stephen Ave., Montreal	West. 0971
Frank, Harold	Grad. Sch	144 Belanger Ave., Montreal	Cres. 5685
Frankel, Paul H	Arts 1	460 Strathcona Ave., Westmount, Que.	West. 0090
Fraser, Allan Donald W	Ap. Sci. 1	1239 Van Horne Ave., Montreal	At. 3313

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Fraser, Archibald D	Arts 3	3605 University St., Montreal	Marq 3101
		Edmundston, N.B.	
Fraser, Joan MacGregor	Grad. Nurses P.	Royal Victoria Maternity, Montreal.	Plat. 1259
		Pictou, Nova Scotia	
Fraser, Norman I	Ap. Sci. 4	470 Prince Arthur St. W., Montreal.	Marq. 7988
		228 Johnston St., Kingston, Ont.	
Fraser, William G	Med. 3	429 Prince Arthur St., Montreal	Har. 0097
		812 Summer St., Lynn, Mass.	
Freedman, Bertram J	Com. 2	366 Kensington Ave., Westmount, Que.	West. 6040
Freedman, H. Jack	Dent. 3	3684 Henri Julien Ave., Montreal.	Har. 4797
Freedman, Hyman M	Arts 4	4625 Esplanade Ave., Montreal	Bel. 4661M
Freedman, Joseph H	Arts 4	5852 Hutchison St., Montreal	Cres. 9555
Freiman, Lawrence H	Arts 4	The Hermitage, 1188 Sherbrooke St. W., Montreal	Up. 7534
		149 Somerset St., Ottawa, Ont.	
French, Chauncey W	Med. 1	3424 St. Famille St., Montreal	Har. 9963
		So. Deerfield, N.H.	
French, Philip B	Arts 1	456 Pine Ave. W., Apt. 32, Montreal.	Marq. 3095
Fricke, Laurence	Arts 1	21 Barat Rd., Westmount, Que.	West. 3738
Friedman, Jack	Ap. Sci. 2	735 Querbes Ave., Outremont, Que.	At. 6131
Friedman, Jacob	Med. 5	164 Notre Dame de Grace Ave., Montreal	Wal. 0297W
Froasts, Earl Basken	Arts 2	3506 University St., Montreal	Marq. 2055
		130 Hinton Ave., Ottawa	
Frost, Anson C. G	Med. 3	3637 University St., Montreal	Plat. 2681
		1619 King Edward Ave., Vancouver, B.C.	
Fulcher, John G	Ap. Sci. 1	3581 University St., Montreal	Marq. 3842
		Hemmingford, Que.	
Fulford, G. Lloyd	Arts 3	3485 McTavish St., Montreal	Marq. 2720
		Arnprior, Ont.	
Fuller, Harold T	Med. 1	545 Pine Ave., Montreal	Marq. 1545
		16 May St., Needham, Mass.	
Fvshe, Thomas G	Arts 3	Apt. 11, 2075 Comte St., Montreal.	Wil. 1071
Gage, John Edward	Com. 2	538 Prince Arthur St. W., Montreal.	Marq. 2740
		555 Wellington Crescent, Winnipeg, Man.	
Gahan, Henry Mannix	Med. 1	3547 University St., Montreal	Plat. 1352
		19 Washington St., Medford, Mass.	
Gaillard, Milton T	Med. 3	3469 Hutchison St., Montreal	Plat. 5447
		147 Rogers Ave., Brooklyn, N.Y.	
Gales, David Lorne	Arts 2	1536 St. Mark St., Apt. 1, Montreal.	Wil. 4551
Gallaugher Arthur F	Grad. Sch. 2	1202 Bishop St.	Up. 6140
		4645 W. 4th Ave., Vancouver, B.C.	
Gallay, Wilfred	Grad. Sch. 3	3467 Shuter St., Montreal	Marq. 9524
		1526-13th Ave. W., Calgary, Alta.	
Gamble, Chas. Sevright	Med. 2	4620 Jeanne Mance St., Montreal.	Bel. 3730W
Gamble, Fred	Ap. Sci. 1	1444 Fort St., Montreal	Wil. 3425
		McMasterville, Que.	
Gammell, Robert G. MacL	Law 3	3712 Park Ave., Montreal	Har. 8505
Gardiner, Ruth A	Grad. Sch	350 Markham Rd., Town of Mount Royal, Que	At. 2898J
Gardner, Campbell McG	Med. 4	340 Oliver Ave., Montreal	West. 6351
Gardner, James Edwin	Com. 1	1390 Sherbrooke St. W., Apt. 11, Montreal	Up. 3414
Gardner, William McG	Grad. Sch	313 Grosvenor Ave., Westmount, Que.	West. 6479
Garland, S. M	Theol. 2	3506 University St., Montreal	Marq. 2055
		Lower Island Cove, Nfld.	
Garmaise, Florence	Arts 3	5471 St. Urbain St., Montreal	Cres. 8291
Garmaise, Max	Law 2	210 Laurier Ave. W., Montreal	Bel. 1085F
Garneau, Edouard	Arts 2	3456 University St., Montreal	Up. 7636
Garonce, Philip	Arts 1	5137 Clarke St., Montreal	Cres. 8147
Garvock, Alex. Graham	Ap. Sci. 1	Presbyterian College, Montreal	Marq. 2720
		136 Lewis St., Ottawa, Ont.	
Gauldie, Donald	Arts 1	6873 Terrebonne Ave., Montreal.	Wal. 7403W
Gelfand, Myer	Law 1	5151 Jeanne Mance St., Montreal.	Cres. 1993
George, Everett M	Med. 4	Apt. 9, 3410 Atwater Ave., Montreal,	West. 4934
		2620 Beaver Ave., DesMoines, Iowa	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Gerhard, Charles A.	Dent. 2	627 Milton St., Montreal 65 Shephard Ave., Newark, N.J.	Marq. 2007
Gersovitz, Frank	Ap. Sci. 2	457 Argyle Ave., Westmount, Que.	West. 3579
Gesser, Issie	Phar. 3	5981 Waverly St., Montreal	Cres. 4711
Gibbons, Morton R., Jr.	Med. 5	545 Pine Ave., W. Montreal 3979 Washington St., San Francisco, Cal.	Marq. 1545
Giblin, Norris	Grad. Sch	351 Cote des Neiges Road, Montreal	West. 8579
Gibson, Robert M	Ap. Sci. 1	3583 Hutchison St., Montreal 58 Waterloo Row, Fredericton, N.B.	Plat. 6785
Giguere, H. Camille	Dent. 2	459 St. Joseph Blvd. E., Montreal	Bel. 0138
Gilbert, David	Law 1	5676 Clark St., Montreal	Cres. 6617
Gildea, Stella Margaret P	Arts 1	17 Dudley Apts., 3680 St. Urbain St., Montreal Box 140, Brownville Jct., Me.	Plat. 0369
Gill, Francis E. T	Com. 4	3605 University St., Montreal 281 O'Connor St., Ottawa, Ont.	Marq. 3101
Gill, MacLean, J	Med. 3	539 Pine Ave. W., Montreal Woodsville, N.H.	Marq. 7818
Gillard, George L.	Arts P	3506 University St., Montreal Englee, Nfld.	Marq. 2055
Gillean, Watson	Arts 2	604 Clarke Ave., Westmount, Que.	West. 2722
Gillespie, Alexander R	Com. 4	3637 University St., Montreal 1420 Pine Ave. W., Montreal	Up. 4125
Gillies, Donald J	Arts P	3485 McTavish St., Montreal St. Kilda, Scotland	Marq. 2720
Gillingham, Allan George	Arts 4	3506 University St., Montreal 11 Golf Ave., St John's, Nfld.	Marq. 2055
Gillson, C. Grace E.	Arts 4	1237 Guy St., Montreal	Up. 5813
Gilman, Albert Eric G	Com. 3	5625 Park Ave., Apt. 2, Montreal	Cres. 2791
Gilmore, Alice E	Arts 2	1647 Gladstone Ave., Montreal	Wil. 3387
Gilmour, Arthur W.	Com. 1	256 Hampton Ave., Montreal	Wal. 9334
Gilpin, Helen Isabelle	Arts P	Rosemere, Que.	
Gilroy, Geoffrey S.	Arts 2	772 Sherbrooke St. W., Montreal Smith's Falls, Ont.	Lan. 1567
Gilroy, Hilda E.	Lib. Sch	1200 Sherbrooke St. W., Montreal Smith's Falls, Ont.	Up. 5942
Ginsberg, Hilliard	Law 1	3660 Hutchison St., Apt. 16, Montreal	Lan. 8823
Giovando, Lorenzo	Med. 5	2007 Mansfield St., Montreal Ladysmith, B.C.	Lan. 4513
Girard, Voligny J. A	Com. 3	922 Sherbrooke St. E., Montreal	East 0166
Girdwood, Charles P.	Ap. Sci. 2	2071 University St., Montreal 243 Kingston St., Victoria, B.C.	Lan. 2332
Girvan, George R.	Med. 1	3578 University St., Montreal 167 Weldon St., Moncton, N.B.	Marq. 1074
Gitnick, Philip J	Arts P 2	4313 St. Dominique St., Montreal	Bel. 9991M
Giulianelli, Leonard S.	Med. 3	5568, 1st Ave., Rosemount, Montreal	Cher. 3017
Glasberg, Frances G.	Arts 2	865 Dunlop Ave., Outremont, Que.	At. 1681
Glasgow, Paul J. W.	Law 3	Acadia Apts., 580 Sherbrooke St. W., Montreal	Up. 7511
Glass, William Kearns	Com. 2	772 Sherbrooke St., Montreal 78 Ash St., Winnipeg. Man.	Lan. 1567
Glassco, Meredith G.	Com. 3	3637 University St., Montreal 2 Evergreen Pl., Winnipeg, Man.	Marq. 1824
Godfrey, John Edward	Ap. Sci. 4	825 Wilder Ave., Outremont, Que.	At. 0641
Godinsky, Samuel	Law 3	6034 Hutchison St., Montreal	At. 3664
Gold, Samuel	Grad. Sch	4596 Clarke St., Montreal	Bel. 8884J
Goldenberg, Annie G.	Arts 4	417 Mt. Stephen Ave., Westmount, Que.	West. 2426
Goldenberg, Eva	Arts 2	417 Mt. Stephen Ave., Westmount, Que.	West. 2426
Goldenberg, H. Carl	Law 1	417 Mt. Stephen Ave., Westmount, Que.	West. 2426
Goldfine, Annabel	Arts 1	4278 Sherbrooke St. W., Westmount, Que.	West. 2642
Goldstein, Ernest	Med. 4	5258 Jeanne Mance St., Montreal	Cres. 3473
Golfman, Myer	Arts 3	5940 Sherbrooke St. W., Montreal, Apt. 3	Wal. 4548

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Gonzalez, George A	Ap. Sci. 4	435 Grosvenor Ave., Westmount, Que.	West. 6158
Gonzalez, Luis Carlos	Ap. Sci. 4	435 Grosvenor Ave., Westmount, Que.	West. 6158
Good, Margaret Wolsey	Arts 4	4470 St. Catherine St. W., Westmount Que.	West. 8575
Goodman, Harold H	Com. 2	317 Durocher Ave., Montreal	Cres. 8776
Goodman, Hyman Bernard	Ap. Sci. 3	4882 Esplanade Ave., Montreal	Bel. 1750J
Goodman, Samuel J	Arts 3	4439 Clarke St., Montreal	Bel. 6269W
Goodstone, Gerald L	Arts 2	5361 Esplanade Ave., Montreal	Cres. 2001
Gordon, E. Lockhart	Soc. Workers 1	16 Braeside Pl., Westmount, Que.	West. 0657
Gordon, Neil Douglas	Med. 5	545 Pine Ave. W., Montreal	Marq. 1545
Gore, Margaret E	Lib. Sch. P	Box. 121, Kelowna, B.C.	Lan. 0973
Goth, George W	Arts 4	3506 University St., Montreal Billings Bridge, Ont.	Marq. 2055
Gotlieb, Jack	Arts 4	57 St. Cuthbert St., Montreal	Plat. 1406
Gough, Roger W	Grad. Sch	3506 University St., Montreal Ell ston, Nfld.	Marq. 2155
Gough, William F	Med. 1	4081 Dorchester St. W., Montreal	West. 2492
Goulding, Velma-Jeanne	Arts 1	R. V. C. Annex, 493 Sherbrooke St., Montreal 67 St. George St., Toronto.	Marq. 1439
Gourlay, William L	Arts 4	3506 University St., Montreal Carp, Ontario, R.R. No. 2.	Marq. 2055
Gowans, Marjorie S	Arts 1	103 Sunnyside Ave., Westmount, Que.	West. 5538
Grace, Nathaniel H	Grad. Sch	3455 Shuter St., Montreal Saskatoon, Sask.	
Graham, Charles Allison	Ap. Sci. 1	619 Murray Hill Westmount, Que, Chesterville, Ont.	West. 2636
Graham, Christine E	Arts 2	Royal Victoria College, Montreal 2042 Cornwall St., Regina, Sask.	Plat. 0078
Graham, Eric R	Com. 1	756 Bloomfield Ave., Outremont, Que.	At. 0433
Graham, John Kenneth	Arts 1	2064 Mansfield St., Montreal 5 Montcalm St., Hull, Que.	Lan. 6825
Graham, Robert M	Arts 1	660 Liverpool St., Montreal	Wil. 5654
Granger, Ruth A	Com. 2	42 Brock Ave. N., Montreal West	Wal. 0020
Granger, Sanford R	Com. 3	3581 University St., Montreal 532 Dufferin Ave., London, Ont.	Marq. 3842
Grant, Alexander E	Com. 3	3550 Shuter St., Montreal 41 Grosvenor Ave., Ottawa, Ont.	Marq. 8260
Grant, Anne B	Soc. Workers 1	University Settlement Residence, Montreal Wolfville, N.C.	Lan. 9855
Grant, Elizabeth R	Grad. Sch	95 McCulloch Ave., Outremont, Que.	
Grant, Fraser	Phy. Edn. 2	3466 University St., Montreal 41 Grosvenor Ave., Ottawa, Ont.	Marq. 2608
Grant, John Alexander	Ap. Sci. 1	475 Argyle Ave., Westmount, Que.	West. 5151J
Grant, Mary Jean	Arts 1	475 Argyle Ave., Westmount, Que.	West. 5151J
Grant, William T	Com. 1	456 Elm Ave., Westmount, Que. 280 Devonshire Rd., Walkerville, Ont.	West. 7067
Gravel, Maurice George	Ap. Sci. 1	19 Barat Rd., Westmount, Que.	West. 5837
Gray, Edward Lyall	Arts 1	596 Cote St. Antoine Rd., Westmount, Que.	West. 2670
Gray, Evelyn Louise	Arts 1	493 Sherbrooke St. W., Montreal 24 Inglewood Drive, Hamilton, Ont.	Marq. 1439
Gray, James D	Med. 3	8036 Western Ave., Montreal	Wal. 6712
Gray, Mary MacQueen	Arts 3	Royal Victoria College, Montreal 72 Leinster St., St. John, N.B.	Plat. 0078
Gray, Nelson Milton	Med. 3	1433 Chomedy St., Montreal	Wil. 3311
Grayson-Bell Bryce	Com. 2	3429 Peel St., Montreal 900 Echo Drive, Ottawa, Ont.	Up. 5947
Greaves, Ida C	Grad. Sch	520 Milton St., Montreal Barbados, B.W.I.	Plat. 4982
Green, Elise H	Arts 3	3 Winchester Ave., Westmount, Que. 43 Balmoral Pl., Winnipeg, Man.	West. 0671
Greenblatt, Robert B	Med. 3	30 Marlowe Ave., Montreal	Wal. 8854
Greene, Harry Sylvestre, N	Med. 5	320 Prince Arthur St. W., Montreal Woonsocket, R.I.	Lan. 6809
Greenspoon, Henry E	Arch. 2, Arts 4	774 Bloomfield Ave., Montreal	At. 6707

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Greenspoon, M.	Music 1	147 Vendome Ave., Montreal	
Gregory, Robert A.	Med. 4	539 Pine Ave., Montreal	Up. 9173
		102 Portland St., St. John, N.B.	
Griffith, Wilberforce	Med. 2	631 Milton St., Montreal	Plat. 0475
		213 W. 115th St., N.Y.C.	
Griffiths, Eugene B.	Med. 4	640 Prince Arthur St. W., Montreal.	Lan. 6809
		Presque Isle, Me.	
Grimard, Romeo Elphege	Phar. 1	4038 Lasalle Blvd., Verdun, Que.	York 0952
		89 St. Georges St., Three Rivers, Que.	
Grimes-Graeme, Arthur D. C.	Arts 1	Strathcona Hall, Sherbrooke St. W., Montreal	Lan. 1567
		8 Harrow View, Harrow, Middlesex, Eng.	
Grimes-Graeme, Rhoderick C.H.	Arts 4	Strathcona Hall, Sherbrooke St. W., Montreal	Lan. 1567
		8 Harrow View, Harrow, Middlesex, Eng.	
Grimm, Jay John.	Med. 5	3639 St. Famille St., Montrea	Har. 2892
		Gainesville, Fla.	
Groenewald, Emily R.	Grad. Nurses 1.	1625 Lincoln Ave., Apt. 1, Montreal.	Up. 2933
Groper, Morris J.	Med. 5	3557 Shuter St., Montreal	Plat. 0541
		1544 Mansfield Pl., Brooklyn, N.Y.	
Gross, Helen E.	Arts 2	377 Beaconsfield Ave., Montreal.	Wal. 3293
Gross, Isidore E.	Law 1	147 Laurier Ave. W., Montrea	At. 1789
Grubert, Mary	Law 1	5355 Durocher Ave., Outremont Que.	Cres. 2746
Gruggel, John Stuart	Med. 1	545 Pine Ave. W., Montreal	Marq. 1545
		29th St. & 16th Ave., Beechhurst, L.I., N.Y.	
Grundy, Harry Edward	Law 3	1445 Metcalfe St., Montreal	Lan. 9982
		57 Portland Ave., Sherbrooke, Que.	
Gunn, William Donald	Med. 2	1198 Seymour Ave., Montreal, Que.	Wil. 4846
		115-2nd St., New Westminster, B.C.	
Gurvitch, Samuel M.	Med. 3	259 St. Viateur St. W., Montreal	Cres. 4978
Gustafson, Carl John	Arts 3	3506 University St., Montreal	Marq. 2055
		Waterville, Que.	
Gutelius, Phoebe A.	Arts 3	341 Kensington Ave., Westmount, Que.	West. 7576
Guthrie, John L. C.	Com. 1	3147 University St., Montreal	Up. 2423
		278 Charlotte St., Ottawa, Ont.	
Guttman, Moe	Arts 1	4609 Park Ave., Montreal	Bel. 9096
Guze, Max	Com. 4	4842 Clarke St., Montreal	Bel.2907W
Haas, Harry	Arts 3	2229 St. Antoine St., Montreal	
Haber, Harold E.	Arts 3	4520 Hutchison St., Montreal	At. 7735J
Hackett, Linda H. (Mrs. John T.)	Grad. Sch.	697 Victoria Ave., Westmount, Que.	West. 5522
Hadwin, Marjorie E.	Arts 3	112 Birch Ave., St. Lambert	St. Lam. 47
Haines, Julius Holmes	Ap. Sci. 4	2211 Dorchester St. W., Montreal.	Up. 5991
Haines, Stanley B.	Arts 2	1 Parkside, Montreal West, Que.	Wal. 3108
Hale, Russel W.	Arts 1	3454 Peel St., Montreal	Up. 6788
		Stillwater, N.Y.	
Hall, George	Arts P	3473 University St., Montreal	Marq. 4902
		Oldham, Lancs., England.	
Hall, George Birks A.	Com. 4	5333 Hutchison St., Montreal	Cres. 6366
Hallett, R. B.	Theol. 1	3506 University St., Montreal	Marq. 2055
		9 Romilly Rd., Cardiff, S. Wales.	
Halpenny, Gerald W.	Med. 1 & Arts 4.	484 Prince Arthur St. W., Montreal.	Plat. 3691
Halpenny, Gwendolyn M.	Arts 1	484 Prince Arthur St. W., Montreal.	Plat. 3691
Halperin, David	Arts 2	4605 Clarke St., Montreal	Bel. 5344
Halperin, Harry J.	Com. 2	4605 Clarke St., Montreal	Bel. 5344
Hamel, Jules	Dent. 2	847 Maplewood Ave., Montreal	At. 4590
		8 D'Aiguillon St., Quebec City, Que.	
Hamilton Andrew W.	Grad. Sch.	3637 Oxenden Ave., Montreal	Up. 9109
		2578 Retallack St., Regina, Sask.	
Hamilton, Douglas V.	Arts 2	445 Mt. Pleasant Ave., Westmount, Que.	West. 1120
Hamilton, Iris Mary	Arts 3	1064 Bernard Ave., Apt. 42, Montreal	At. 1958
Hammond, George C.	Com. 1	1176 Sherbrooke St. W., Montreal.	Up. 1674W
		20 Portland Ave., Sherbrooke, Que.	
Hanbury, Bruce A.	Com. 2	2028 Victoria St., Montreal	Plat. 6812
		2751-41st Ave. W., Vancouver, B.C.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Hand, Alice E. R.	Arts 4	Royal Victoria College, Montreal Hamilton, Oht.	Plat. 0078
Hand, Chas. W	Arts 2	1022 Sherbrooke St. W., Montreal 130 S. College Ave., Sarnia, Ont.	
Hankin, Edmund A.	Arts 1	648 Murray Hill, Westmount, Que.	West. 6442
Hankin, Mary Ellen	Arts 2	648 Murray Hill, Westmount, Que.	West. 6442
Hanlon, Francis W	Med. 4	3434 McTavish St., Montreal Ridlonville, Me.	Up. 8633
Hardy, Robert McD	Grad. Sch	3485 McTavish St., Montreal 110 Martin Ave., Winnipeg, Man.	Marq. 2720
Harkins, Michael J	Med. 3	539 Pine Ave. W., Montreal 28 Union St., Lewiston, Me.	Marq. 7818
Harkness, James	Arts 2	301 Sherbrooke St., Lachine, Que.	Lach.1820W
Harrington, Anne L	Arts 1	Baie d'Urfe, Que.	
Harrington, Margaret E	Arts 2	c/o J. H. Harrington, 316 Joseph St., Verdun, Que. College Green, Baie d'Urfe, Quebec.	
Harris, Alfred N	Ap. Sci. 2	570 Marcil Ave., Montreal	Wal. 3099
Harris, Archie Mackenzie	Med. 4	640 Prince Arthur St. W., Montreal. 27 Daremus Ave., Ridgewood, N.J.	Lan. 6809
Harris, Harry H.	Arts 4	3610 Durocher St., Montreal	Marq. 6756
Harris W. Marion	Arts 2	Royal Victoria College, Montreal 1902 Matthews Ave., Vancouver, B.C.	Plat. 0078
Harrison, A. H	Theol.	3473 University St., Montreal Sarnia, Ont.	Marq. 4902
Harrison, Ronald Dex.	Arts 1	48 Dufferin Rd., Hampstead, Que.	El. 4627
Hart, Charles Francis	Arts 2	1498 Sherbrooke St. W., Montreal	Up. 3265
Hart, Herbert Trench	Ap. Sci. 2	772 Sherbrooke St. W., Montreal c/o Manton & Hart, 71 Barry St., Kingston, Jamaica, B.W.I.	Up. 9109
Hart, Isidor Raymond	Arts 2	4849 Hutchison St., Montreal	At .4708
Hart, Lawrence	Law 2	600 Argyle Ave., Westmount, Que.	West. 1979
Hart, William R	Com. 1	62 Forden Crescent, Westmount, Que.	West. 1930
Hart, Wilbur James	Arts 1	1498 Sherbrooke St. W., Montreal	Up. 3265
Hartley, Alfred J	Com. 1	2071 Peel St., Montreal 430 St. Patrick St., Victoria, B.C.	Lan. 4359
Hartley, Edith Frances	Arts 2	Royal Victoria College, Montreal 430 St. Patrick St., Victoria, B.C.	Plat. 0078
Hartney, James Rowan	Ap. Sci. 4	3516 Shuter St., Montreal 2153 McIntyre St., Regina, Sask.	Marq. 8460
Harvey, Beatrice E. M	Com. 1	934 Grosvenor Ave., Westmount, Que.	West.6113W
Harvey, Dorothy M	Arts P	4007 Dorchester St. W., Montreal	West. 5599
Harvey, James C	Com. 1	456 Elm Ave., Westmount, Que. 244 Yonge St., Toronto.	West. 7067
Harvey-Jellie, Doreen J	Arts 2	378 Wood Ave., Westmount, Que.	West. 6586
Harvey-Jellie, Reginald C	Law 2	378 Wood Ave., Westmount, Que.	West. 6586
Haslam, Lewis C	Arts 3	1034 Grosvenor Ave., Westmount, Que. Springfield, P.E.I.	West. 7144.
Hastings, James A. C	Arts 1	3506 University St., Montreal Box 75 Schreiber, Ont.	Marq. 2055
Hatfield, Albert R	Med. 4	1025 Sherbrooke St. W., Montreal Utica, N.Y.	Up. 4216
Hatfield, Gordon Wallace	Ap. Sci. 3	1496 Bishop St., Montreal 122 Broad St., St. John, N.B.	Up. 4156
Haughton, Thomas J	Arts 3	Apt. 3, 3656 Durocher St., Montreal Vankleek Hill, Ont.	Marq. 3956
Hawley, Eric F.	Ap. Sci. 3	10415 St. Hubert St., Montreal Ormstown, Que.	Cal.4555F
Hay, Margaret R.	Arts 1	Royal Victoria College, Montreal 101 Park Ave., Quebec, Que.	Plat. 0078
Hayden, Robert Sheldon	Med. 4	3419 University St., Montreal 116 Circular St., Saratoga Spgs., N.Y.	Marq. 3089
Hayes, Harry	Arts P	Presbyterian College, McTavish St. Linwood St., Belfast, Ireland.	Marq. 2720
Hayes, Saul	Law 1	7 Winchester Ave., Westmount, Que.	West. 5503
Hayward, Gordon W	Med. 1	3578 University St., Montreal Woodstock, N.B.	Marq. 1074

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Heaman, John Dunlop	Ap. Sci. 1	2071 University St., Montreal	Lan. 2332
		400 Jefferson Ave., Detroit, Mich.	
Heard, Jack Frederick	Grad. Sch.	3460 Durocher St., Montreal	Plat. 4644
		38 Southwick St., St. Thomas, Ont.	
Heaton, Phyllis	Arts 4	3136 Westmount Blvd., Westmount, Que.	West. 2450
Heavysege, Bruce R	Ap. Sci. 1	330A St. Joseph St., Lachine, Que	Lach. 700W
Hebb, Donald O.	Grad. Sch.	Rushbrooke School, Montreal	York 6082
		186 Portland St. Dartmouth, N.S.	
Hebert, Alfred Anthony	Med. 2	3534 Univeristy St., Montreal	Marq. 3448
		546 Central StFralin, N.H.	
Hebert, Roger D.	Arts 1	224 St. Joseph Blvd. E., Montreal	Bel. 5158
		257 Exchange St., Chicopee, Mass.	
Hecht, Sol. Selwyn	Com. 2	137 Villeneuve St. W., Montreal	Bel. 9014F
Heeney, Marjorie E.	Lib. Sch.	1806 Lincoln Ave., No. 5, Montreal	Up. 2078
Heitin, Benjamin	Com. 3	4278 City Hall Ave., Montreal	Bel. 6627W
Held, Albert Edward	Med. 5	460 Wiseman Ave., Outremont, Que.	At. 3933
Held, Irene S.	Arts 2	460 Wiseman Ave., Outremont, Que.	At. 3933
Heller, Benjamin P	Med. 3	226 St. Joseph Blvd. W., Montreal	Bel. 3630W
Heller, Michael	Arts 2	226 St. Joseph Blvd. W., Montreal	Bel. 3630W
Heller, Paul	Law 1	3463 Park Ave., Montreal	Plat. 3306
Helwig, Gerald V.	Grad. Sch.	772 Sherbrooke St. W., Montreal	Lanc. 1567
		Alexandria P.O., Jamaica, B.W.I.	
Henderson, Donald G.	Med. 4	3639 St. Famille St., Montreal	Har. 7601
		Huntingdon, Que.	
Henderson, Ernest R.	Arts 1	51-17th Ave., Lachine	Lach. 13
Henderson, George C.	Com. 1		Marq. 7809
		Williamstown, Ont.	
Henderson, James	Arts 1	5958-20th Ave., Rosemount	Clair. 2176W
Henderson, Jessie M.	Arts 2	Mt. Royal Park, Montreal	Up. 0873
Henderson, John V.	Arts 3	Mt. Royal Park, Montreal	Up. 0873
Henderson, Marion	Arts 1	138 Cote des Neiges Road, Montreal	Up. 1137
Henderson, Roberta L.	Lib. Sch.	1019 Sherbrooke St. W., Montreal	Up. 7913
		Morrisburg, Ont.	
Henderson, William Ed.	Com. 2	253 Clifton Ave., Montreal	Wal. 1777
Henderson, Marion	Arts 1	138 Cote des Neiges Rd., Montreal	Up. 1137
Henderson, Roberta L.	Lib. Sch.	1019 Sherbrooke St. W., Montreal	Up. 7913
		Morrisburg, Ont.	
Henderson, William Edward	Com. 2	253 Clifdon Ave., Montreal	Wal. 1777
Hendery, Helen C.	Arts 1	814 Grosvenor Ave., Westmount, Que.	West. 6535
Hendry, James Robert	Com. 4	6981 Bloomfield Ave., Montreal	At. 4813
Henniger, Charles F.	Ap. Sci. 2	2019 Stanley St., Montreal	Har. 8703
		Smiths Falls, Ont.	
Henniger, James P.	Ap. Sci. 1	2019 Stanley St., Apt. 15, Montreal	Har. 8703
		Smiths Falls, Ont.	
Henry, Karl H. J.	Arts 1	3565 Lorne Ave., Montreal	Plat. 5963
		St. Georges, Grenada, B.W.I.	
Henry, Thomas J.	Com. 1	3581 University St., Montreal	Marq. 3448
		124 King St. E., Oshawa, Ont.	
Henwood, Robert W.	Ap. Sci. 2	3433 Peel St., Montreal	Up. 2143
		113 St. Blair Ave. W., Toronto, Ont.	
Herdt, Jacques A	Law 2	270 Vendome Ave., Montreal	Wal. 9322
Herman, Blanche G.	Grad. Nurses P.	Montreal General Hosp. (West. Div.)	
		Montreal	Wil. 6855
		Lunenburg, N.S.	
Herman, Harry	Law 1	5700 Clarke St., Montreal	Cres. 6489
Herman, Michael C.	Law 1	236 St. Joseph Blvd. W., Montreal	Bel. 1750W
Herscovitch, Julius	Med. 2	4615 Park Ave., Montreal	Bel. 4713F
Herschorn, Lottie R.	Grad. Sch.	704 Bloomfield Ave., Outremont, Que.	At. 3461
Hershman, Fayge	Arts 1	257 Villeneuve St. W., Montreal	Bel. 5712
Hervey, Jean E.	Com. 2	146 Easton Ave., Montreal West	Wal. 1499J
Hess, Ernest	Grad. Sch.	2054 Mansfield St., Montreal	Lan. 5528
Heuser, H.	Arts 2	737 Querbes Ave., Outremont, Que.	At. 4222M
Hewett, Walter Albert	Arts 1	3473 University St., Montreal	Marq. 4902
		Southam, Eng.	
Hewitt, Dorothy A.	Arts 2	921 Hartland Ave., Outremont, Que.	At. 7659
Hewitt, Frank Spencer	Arts 4	3506 University St., Montreal	Marq. 2055
		Fortune, Nfld.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Hickey, Charles H	Ap. Sci. 1	131 Ballantyne Ave. N., Montreal West	Wal. 0941
Hickey, Malcolm A	Arts 4	131 Ballantyne Ave. N., Montreal West	Wal. 0941
Hicks, Frederick G	Med. 1	539 Pine Ave., Montreal 1116 Bruce Ave., Windsor, Ont.	Marq. 7818
Hicks, Henry Brodie	Arts 1	4410 St. Catherine St. W., Montreal. 86 Fraser St., Quebec	West. 9604
Higgins, A. Reginald	Med. 3	640 Prince Arthur St. W., Montreal. 780 Main St., Lewiston, Me.	Lan. 6809
Higgins, Edward O'Neill	Com. 1	3647 University St., Montreal Prescott, Ont.	Marq. 2806
Higginson, Mildred E	Arts 2	225 Wolseley Ave., Montreal West	Wal. 0397
Hill, Allison K	Med. 1	3547 University St., Montreal 295 French St., Bangor, Me.	Plat. 1352
Hill, Olive M	Arts 3	297 Beatty Ave., Verdun	York 9067
Hill, Walter H. P	Med. 1	1445 MacKay St., Montreal	Up. 1225
Hilliard, William D	Arts 1	1483 Atwater Ave., Montreal	Wil. 2017
Hillyard, Ethel M	Grad. Nurses P.	Children's Mem. Hosp., Cedar Ave., Montreal 1615 Lincoln Ave., Montreal.	Up. 9020
Hilts, Leo G. W	Arts 2	3454 Peel St., Montreal 129 Lauder Ave., Toronto	Up. 6788
Hines, Elizabeth A	Arts 1	8028 Western Ave., Montreal	Wal. 6440
Hines, William S	Ap. Sci. 3	9 Tara Hall Ave., Montreal East Noel, Hants Co., N.S.	Plat. 1908
Hirsch, Richard J	Ap. Sci. 4	2039 Albert St., Montreal	Wil. 5635
Hise, Fred	Med. 5	2036 City Councillors St., Montreal. 1018, 9th St. N.W., Canton, Ohio.	
Hjertholm, Oswald	Ap. Sci. 1	1829 Lincoln Ave., Montreal Arvida, Que.	Up. 0609
Hobbs, Constance A	Arts 1	578 Desaulniers Blvd., St. Lambert.	St Lam. 555
Hobbs, Helen R	Phy. Ed. 2	3466 University St., Montreal 1195 Richmond St., London, Ont.	Marq. 2608
Hochberg, Lew A	Med. 4	1475 Mansfield St., Montreal 1530 Bay St., Far Rockaway, L.I., N.Y.	Lan. 5733
Hodgins, Sidney B	Com. 1	789 Melrose Ave., Montreal Shawville, Que.	Wal. 9460J
Hogan, James J	Arts 1	2395 Wellington St., Montreal	York 0635
Hogg, Lorne O	Arts 1	Royal Victoria College 128 Oxford St., Halifax, N.S.	Plat. 0078
Hogle, John R	Med. 2	3630 Park Ave., Montreal 403 W. Liberty St., Ann Arbor, Mich.	Up. 9173
Holcomb, Robert K	Grad. Sch	Chemistry Building, St. Anne de Bellevue, Que	St. Anne 287
Holden, Margaret W	Phy. Ed. 1	3466 University St., Montreal 111 Gerard St., Winnipeg	Marq. 2608
Holland, Eleanor I	Arts 3	334 Olivier Ave., Westmount, Que.	West. 5080
Holland, Elizabeth A	Arts 3	134 Ballantyne Ave. N., Montreal West	Wal. 0602
Holland, George A	Med. 4	134 Ballantyne Ave. N., Montreal West	Wal. 0602
Holland, Hugo R	Ap. Sci. 1	2071 University St., Montreal 151 Front St., Sarnia, Ont.	Lan. 2332
Holland, Trevor Clive	Ap. Sci. 3	193 The Boulevard, Westmount, Que.	West. 1744
Hollenbeck, Margaret, H. N	Grad. Nurses	42 Cardinal Ave., St. Laurent, Que.	By. 0731
Holleran, John Henry	Med. 3	640 Prince Arthur St. W., Montreal. 9 Heathcote St., Roslindale, Mass.	Lan. 6809
Holliger, Margaret	Arts 4	577 Harvard Ave., Montreal	Wal. 0579J
Hollingsworth, Henry L. B	Com. 2	3550 Shuter St., Montreal 105 Cambridge St., Ottawa, Ont.	Marq. 8260
Holt, Matthew C	Law 3	85 Church Hill, Westmount, Que.	West. 4014
Home, John McG	Law 2	3433 Peel St., Montreal 362 Grande Allée, Que.	Up. 2143
Honeyman, Arthur J. M	Arts 4	3506 University St., Montreal 222 Third Ave., Ottawa, Ont.	Marq. 2055
Hoover, Edward P	Grad. Sch	4040 Ontario St. E., Montreal 1071 Big Falls Ave., Akron, Ohio	At. 4819
Hopkins, Henry Perkins	Med. 3	640 Prince Arthur W., Montreal Greenfield, N. H.	Lan. 6809

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Horn, C. W. Ludvig	Com. 3	350 Melrose Ave., Montreal	Wal. 2706
Horne, Robert A	Arts 2	3592 University St., Montreal Summerside, P.E.I.	Marq. 4479
Horsfall, Frank L., Jr	Med. 3	3419 University St., Montreal 403, 18th Ave. N., Seattle, Wash.	Up. 1811
Hosking, Fred Smith	Med. 5	640 Prince Arthur St. W., Montreal. 242 Iroquois St.. Calumet, Mich.	Lan. 6809
Hough, Ayton L	Ap. Sci. 1	5729 Hutchison St., Apt. 5, Montreal.	Cres. 0117
Hough, Earl	Med. 1	3489 Shuter St., Montreal Outlook, Sask.	Plat. 5924
Hough, Perry Tyler	Med. 3	1022 Sherbrooke St. W., Montreal 179 Beacon St., Hartford, Conn.	Plat. 6482
Houghton, Thomas W	Ap. Sci. 2	730 Upper Belmont Ave., Westmount, Que.	West. 7985
House, Kenneth W	Arts 3	Presbyterian College, Montreal 2116 Dorchester Rd., Apt. 4D, Flatbush, Brooklyn, N.Y.	Marq. 2720
How, Emma L	Arts 1	155 Marlowe Ave., Montreal	Wal. 5728
How, George Edwin	Com.	155 Marlowe Ave., Montreal	Wal. 5728
Howard, Harvey	Med. 4	3609 University St., Montreal Freeport, Me.	Plat. 3464
Howard, Hazel	Arts 3	655 Grosvenor Ave., Westmount, Que.	West. 9520
Howard, Mabel E	Phy. Ed. 1	The Hostel, 3466 University St., Montreal. 744 Morrison Ave., Niagara Falls, Ont.	Marq. 2608
Howard, Robert Palmer	Arts 2	630 Clarke Ave., Westmount, Que.	West. 9111
Howard, T. Palmer	Arts 3	4189 Avenue Rd., Westmount, Que.	West. 5530
Howat, Alfred Dick	Com. 1	391 Gordon Ave., Verdun, Que.	York 2777J
Howe, Hazel Mae	Com. 2	Royal Victoria College, Montreal Shawinigan Falls, Que.	Plat. 0078
Howell, Beatrice Mary	Arts 4	572 Victoria Ave., Westmount, Que.	West. 3993
Howell, Chesley Taylor	Arts 3	United Theol. College, Montreal Carbonear, Nfld.	Marq. 2055
Howie, Mabel F	Arts 2	411 Sherbrooke St. W., Montreal Pike River, Que.	Plat. 0302
Howie, Ruth J	Arts 1	411 Sherbrooke St. W., Montreal Pike River, Que.	Plat. 0302
Howland, Frances	Grad. Sch	3557 Durocher St., Montreal Athens, N.Y.	Har. 7512
Howlett, John G	Med. 2	545 Pine Ave., W. Montreal 64 Prescott St., St. Johns, Nfld.	Marq. 1545
Howlett, Leslie T	Grad. Sch	375 Prince Arthur St. W., Montreal. 538 Amphion St., Victoria, B.C.	Har. 1941
Hubbard, Edward Reed	Med. 4	3410 Atwater Ave., Montreal 157 High St., Taunton, Mass.	West. 4934
Hudon, Geraldine F	Arts 4	209 Wilson Ave., Montreal	Wal. 5873
Hudson, Percival A	Arts 3	3506 University St., Montreal Aylmer E., Que.	Marq. 2055
Hughes, Elizabeth B	Arts 1	1208 St. Mark St., Montreal	Wil. 4844
Hughes, Thomas Ed	Med. 2	3449 City Hall Ave., Montreal 65 Peace St., Providence, R.I.	Lan. 1773
Hulme, Gordon D	Ap. Sci. 3	101 Grey Ave., Westmount, Que.	West. 2472
Hume, Mary Mona	Lib. Sch.	616 Sydenham Ave., Montreal Edmonton, Alta.	Wal. 7578
Hungerford, Lillian H. H	Arts 4	5038 Jeanne Mance St., Montreal.	Bel. 7505
Hungerford, Stewart J	Ap. Sci. 3	1108 Elgin Terrace, Montreal	Up. 4508
Hunt, Andrew L	Med. 4	3660 Lorne Crescent, Montreal Nanaimo, B.C., c/o John Hunt	Marq. 3062
Hunt, Bruce DeVere	Arts 1	225 Melville Ave., Montreal	Lan. 1567
Hunt, Constance M	Arts 3	Royal Victoria College, Montreal 327 South James St., Hamilton, Ont.	Plat. 0078
Hunter, Gerald F. H	Arts 4	3635 St. Urbain St., Montreal Huntingdon, Que.	Plat. 2496
Hunter, Robert G	Grad. Sch	1506 Mackay St., Montreal Box 121, Clinton, Ont.	Up. 7902
Hurd, Allan C	Med. 1	3550 Lorne Ave., Montreal 28 Fairview Terrace, White River Jct., Vt.	Plat. 2982
Hurd, Frederick W	Law 3	9 Weredale Park, Westmount, Que.	West. 2608

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Hurst, Donald G	Arts 1	United Theol. College, 3506 University St Buckingham, Que.	Marq. 2055
Hutchins, Forbes M	Arts 4	3524 Ontario Ave., Montreal	Up. 5784
Hutchins, John Anderson	Arts 3	23 Windsor Ave., Westmount, Que.	West. 2602
Hutchinson, Walter J. B	Ap. Sci. 4	5217 Sherbrooke St. W., Apt. 58, Montreal Fernside, St. Vincent, B.W.I.	Wal. 9795J
Hutchison, Alfred W	Ap. Sci. 3	3504 Park Ave., Apt. 5, Montreal 136 St. Cyrille St., Que.	Marq. 6590
Hutchison, James G	Com. 3	26 Aberdeen Ave., Westmount, Que.	West. 3078
Hutt, Gordon McLean	Grad. Sch.	936Earnscliffe Ave., Montreal	
Hyde, Anne C	Arts 4	1554 Pine Ave. W., Montreal	Up. 3794
Ignatieff, Leonide	Arts 2	12 Macdonald Apts., 6251 Sherbrooke St. W., Montreal	
Illsey, Eloise H	Arts 2	142 Maple Ave., St. Lambert, Que.	St.Lam.594J
ImObersteg, Anna R	Social Workers	674 Outremont Ave., Outremont, Que.	At. 2918
Ingham, Jason Harold	Arts 1	4034 Dorchester St. W., Westmount, Que.	West. 6085
Innes, Edward P. N	Ap. Sci. 1	3608 University St., Montreal Simcoe, Ont.	Marq. 3101
Ingersoll, Marion	Soc. Workers	1830 Lincoln Ave., Apt. 11 113 Gilmour St., Ottawa, Ont.	Up. 3866
Ironstone, Harry R	Dent. 3	3556 Hutchison St., Montreal 297 Larch St., Sudbury, Ont.	Har. 6991
Irvine, Esther H	Arts 2	Macdonald College, Que	St. Annes 127
Irving, Margaret L	Arts 3	Apt. 27, 1551 St. Mark St., Montreal.	Up. 2732
Issenman, Sara	Arts 1	448 Marcil Ave., Montreal	Wal. 7203
Ittkin, Paul	Med. 2	5921 Clarke St., Montreal	Cres. 1835
Ives, Margaret E	Arts 1	548 Prince Arthur W., Montreal 402-5th Ave., Lethbridge, Alta.	Marq. 7845
Jackman, Gerard J	Com. 2	4545 LaSalle Blvd., Verdun, Que. 43 Springdale St., St. John's, Nfld.	York 6725
Jackson, Naomi A	Arts P	35 Campbell Ave., Montreal West, Que.	Wal. 0940
Jacob, Donald R	Med. 1	3494 Hutchison St., Montreal South China, Me.	Lan. 7568
Jacobs, Dorothy	Law 1	5120 Durocher Ave., Montreal	Cres. 0556
Jacobs, Edward N	Com. 2	626 Belmont Ave., Montreal	West. 6742
James, Benjamin P	Arts 2	1414 Fort St., Montreal 1820 Third Ave., Watervliet, N.Y.	Wil. 2666
Jamary, Annie May	Grad. Nurses P.	3429 St. Famille St., Montreal Athens, Texas.	
Janikun, Seymour	Arts 2	5418 St. Urbain St., Montreal	Cres. 079
Japp, Robert	Grad, Sch.	624 First Ave., Verdun, Que Kirkland Rd., Methil, Fife, Scotland.	York 8082
Jaquays, Homer M	Ap. Sci. 4	3457 Ontario Ave., Montreal	Up. 3101
Jeffrey, L. K	Theol. 1	3506 University St., Montreal Cardiff, S. Wales.	Marq. 2055
Jeffrey, Margaret A	Arts 2	1711 Queen Mary Rd., Montreal	El. 6102
Jehin de Prume, Francois	Med. 4	3447 Shuter St., Apt. 1, Montreal 29 W. 87th St., New York City, N.Y.	Plat. 1361
Jehu, Llewellyn	Ap. Sci. 4	157-24th Ave., Lachine, Que.	Lach.760J
Jenkins, Lloyd H	Grad. Sch	3485 McTavish St., Montreal 36 Brighton Rd., Charlottetown, P.E.I.	Marq. 2720
Johnson, Alma Edna	Arts 2	137 Marlowe Ave., Montreal	Wal. 5683
Johnson, Annie Pearl	Grad. Nurses	1430 Sherbrooke St. W., Montreal. Clapham, Que.	
Johnson, Douglas S	Com. 1	100-44th Ave., Lachine, Que	Lach. 218
Johnson, Edward H	Arts 4	463 Strathcona Ave., Westmount, Que.	West. 1530
Johnson, Elsie C	Arts P	463 Strathcona Ave., Westmount, Que.	West. 1530
Johnson, Gordon H	Arts 2	4396 Western Ave., Westmount, Que.	West. 4050
Johnson, Irene M	Arts 1	Royal Victoria College, Montreal 715 Prospect Ave., Calgary, Alta.	Plat. 0078
Johnson, Nancy A	Arts 2	46 Trafalgar Ave., Montreal	West. 1571
Johnson, Robert E. L	Ap. Sci. 2	536 Grosvenor Ave., Westmount, Que.	West. 2868

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Johnson, Walter H	Arts 1	536 Grosvenor Ave., Westmount, Que.	West. 2868
Johnston, Charles D. G	Arts 3	3433 Peel St., Montreal	Up. 2143
		12 DesGrisons St., Quebec, Que.	
Johnston, Harcourt T	Arts 3	3485 McTavish St., Montreal	Marq. 2720
		Kemptville, Ont.	
Johnston, Mary K	Soc. Workers 2	2049 Coursol St., Montreal	Wil. 0255
		197 Carling Ave., Ottawa, Ont.	
Johnston, Robert W	Com. 1	283 Hampton Ave., Montreal	Wal. 1486
Johnston, Vernon Seager	Arts 1	Central Y.M.C.A., Drummond St., Montreal	Up. 6500
		Black River, Jamaica, B.W.I.	
Joliat, Eugene A	Arts 3	3546 Park Ave., Montreal	Plat. 0620
Jolley, Malcolm P	Ap. Sci. 1	1484 Mansfield St., Montreal	Plat. 7525
		Granby, Que.	
Joncas, Helen E	Grad. Nurses	2023 Kimberley St., Montreal	Lan. 5761
		Port Hawkesbury, C.B.	
Jones, Florence H	Arts 1	333 Wilson Ave., Montreal	Wal. 1399
Jones, Geoffrey C	Com. 4	14 Selkirk Ave., Montreal	Up. 0375
		Rothesay, N.B.	
Jones, Norman H	Med. 2	3506 University St., Montreal	Marq. 2055
		Cobden, Ont.	
Jones, Ralph N	Med. 4	2015 University St., Apt. 4, Montreal	Lan. 6506
		Colebrook, N.H.	
Jones, Reginald M	Arts 2	111 East Ave., Montreal West, Que.	Wal.7891W
Jonet, Richard P	Med. 5	2019 Stanley St., Montreal	Lan. 5990
		Springfield, Me.	
Jonitz, Robert	Med. 5	3467 Shuter St., Montreal	Marq. 9524
		288 Woodside Ave., Newark, N.J.	
Jopling, Thomas R	Ap. Sci. 4	3454 Peel St., Montreal	Up. 6788
		Gaspe Basin, Que.	
Joseph, Brenda	Arts 3	2150 Sherbrooke St. W., Montreal	Wil. 8756
Jost, George	Ap. Sci. 2	3605 University St., Montreal	Marq. 3101
		261 Somerset St. W., Ottawa, Ont.	
Jotcham, Marjorie H	Arts 3	492 Oxford Ave., Montreal	Wal. 1709
Jotcham, William G. R	Arts 3	492 Oxford Ave., Montreal	Wal. 1709
Journet, Paul L. M	Arts 1	4043 St. Andrews St., Montreal	Fron. 1262
Judd, Ebert E	Arts 2	3592 Jeanne Mance St., Montreal	Plat. 6679
		Waltham, Ont.	
Judson, Frances C	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		25 Victoria Ave., Brockville, Ont.	
Jue, Gordon J	Ap. Sci. 2	670 Lagauchetiere St. W., Montreal	Lan. 0310
Kaine, Gerald	Arts 2	723 Old Orchard Ave., Montreal	Wa. 9503
		48 d'Artigny St., Quebec	
Kalman, Max Myron	Arch. 4	504 Harvard Ave., Montreal	Wal. 3286
Kane, Alice E	Arts 4	290 Northcliffe Ave., Montreal	Wal. 8164
Kaplan, Beatrice M	Arts 2	27 Duquette Ave., Montreal	Wal. 6819F
Kaplan, Mildred Queenie	Arts 3	27 Duquette Ave., Montreal	Wal. 6819F
Kapusta, Bessie	Phy. Ed. 2	4398 Rivard St., Montreal	Bel. 1418W
Katz, Bessie	Music	260 Villeneuve St. W., Montreal	
Katz, Jack	Arts 3	5690 Esplanade Ave., Montreal	Cres. 0909
Katzman, John	Grad. Sch.	3902 St. Urbain St., Montreal	Plat. 3076
Kaufman, Dorothy	Phy. Ed. 1	324 Elm Ave., Westmount, Que.	West. 5426
Kaufman, Jacob	Com. 4	724 Upper Belmont Ave., Westmount, Que.	West. 3606
Kaufman, Max Sidney	Arts 3	724 Upper Belmont Ave., Westmount, Que.	West. 3606
Kaufmann, Mark Irving H	Arts 3	295 Prudhomme Ave., Montreal	Wal. 4824
Kay, Alan G	Ap. Sci. 1	4034 Dorchester St., Westmount, Que.	West. 6085
		97 Park Ave., Quebec.	
Kay, Muriel G	Arts 3	299 Hingston Ave., Montreal	Wal. 0463
Kaynton, John	Arts 2	3447 Shuter St., Montreal	
		224 State St., Bangor, Me.	
Keating, Muriel A	Arts 3	6056 Durocher Ave., Montreal	At. 0229
Keenan, Clifford	Com. 2	1025 Sherbrooke St. W., Montreal	Up. 4418
		Sault Ste. Marie, Ont.	
Keller, Donald R	Med. 5	3566 Lorne Ave., Montreal	Plat. 5056
		Marshalltown, Iowa.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Keller, Hieronimus	Ap. Sci. 2	1532 Burnside Pl., Montreal	Up. 2584
Kelly, George Nelson	Dent. 2	68 Marcil Ave., Montreal	Wal. 6147
		Huntingdon, Que.	
Kelly, Jerome Joseph	Med. 4	1120 Bernard St., Montreal	At. 5116J
		Renfrew, Ont.	
Kelly, Joseph Charles	Arts 3	1018 Sherbrooke St. W., Montreal	Lan. 5778
		415 LaFayette St., Ogdensburg, N.Y.	
Kemball, Alfred Walter	Arts P	3506 University St., Montreal	Marq. 2055
		Timmins, Ont.	
Kenna, Katherine M.	Law 2	1170 Mountain St., Montreal	Up. 5346
		Dunmore, Antigonish Co., N.S.	
Kennedy, George L.	Med. 4	3637 Oxenden Ave., Montreal	Plat. 5707
		Plaza Hotel, Minneapolis, Minn.	
Kennedy, Gerald J.	Arts 1	522 Harvard Ave., Montreal	Wal. 9343
Kent, Joseph C.	Med. 4	3469 Hutchison St., Montreal	Plat. 5447
		228 Doyle Ave., Providence, R.I.	
Kerr, David	Arts P	Presbyterian College, Montreal	Marq. 2720
		Glasgow Station, Ont.	
Kerr, Robert Allen	Arts 1	4765 St. Catherine St. E., Montreal	Clair. 0529
Kerry, Esther W.	Soc. Workers 2	1374 Sherbrooke St. W., Montreal	Up. 2521
Kershman, Jack	Med. 3	5210 Hutchison St., Outremont, Que.	Cres. 0970
Kert, Violet	Music 1	465 Girouard Ave. Montreal	
Keysor, Philip S.	Med. 5	2050 Victoria St., Montreal	Lan. 1798
		140 Brinkerhoff St., Plattsburg, N.Y.	
Khaner, Miriam	Arts 2	5263 St. Urbain St., Montreal	Cres. 3619
Kiefer, Elsie B.	Grad. Sch. P.	1433 Chomedy St., Montreal	
		120 Westbourne Terr., Brookline, Mass.	
Kiesenwetter, Theodore N.	Med. 3	3485 McTavish St., Montreal	Marq. 2720
		170-3rd St., Troy, N.Y.	
Kimball, George F.	Ap. Sci. 3	3 Lemieux Apts., 4116 St. Denis St., Montreal	Bel. 5190W
		12 Gloucester Apts., Winnipeg.	
Kincade, Gordon F.	Med. 4	3516 Shuter St. Montreal	Marq. 8460
		59 St. James St., St. John, N.B.	
Kindle, Margaret C.	Phy. Ed. 1	3466 University St., Montreal	Marq. 2608
		33 Woodlawn Ave., Ottawa	
King, Dorothy	Soc. Workers	1245 McKay St., Montreal	Wil. 1151
King, Ethel	Arts 3	Royal Victoria College, Montreal	Plat. 0078
		199 LeMarchant Rd., St. Johns, Nfld.	
King, Gilbert H.	Arts 3	3651 St. Urbain St., Montreal	Plat. 2879
		So. Stukely, Que.	
King, James G.	Ap. Sci. 3	3445 Ontario Ave., Montreal	Up. 3527
Kingston, Paul T.	Med. 5	1208 Drummond St., Montreal	Up. 8071
		Prescott, Ont.	
Kinley, John W.	Med. 4	3504 Park Ave., Apt. 15, Montreal	Plat. 4708
		104 Hancock Ave., Jersey City, N.J.	
Kipp, Theodore R.	Ap. Sci. 2	471 Prince Arthur St. W., Montreal	Plat. 5058
		1054 Grosvenor Ave., Winnipeg.	
Kirby, Edward G.	Ap. Sci. 1	1486 Bishop St., Montreal	Up. 1093
		104 Strathcona Ave., Ottawa, Ont.	
Kirk, William B.	Com. 1	1463 Bishop St., Montreal	Up. 2915
		Antigonish, N.S.	
Kirkley, Randolph	Arts 1	1290 Bernard Ave., Montreal	At. 6772
Kirsch, Edward	Arts 1	12 Windsor St., Westmount, Que.	West. 8446
Klein, Abraham M.	Arts 4	4267 Clarke St., Montreal	Bel. 1407M
Klein, Herman	Ap. Sci. 4	5139 St. Urbain St., Montreal	Cres. 8734
Klein, Irwin B.	Law 1	721 Wiseman Ave., Outremont, Que.	At. 3389
Klein, Simon	Arts 4	721 Wiseman Ave., Outremont, Que.	At. 3389
Klineberg, Nettye V.	Arts 3	4059 Dorchester W., Montreal	West. 6511
Knapton-Pain, Harold	Arts 1	4836 Western Ave., Westmount, Que.	West. 1390
		Vonda, Sask. Box 17.	
Kneen, Douglas	Com. 2	4038 Rosemount Blvd., Montreal	Clair. 0813F
Knorr, Christopher G. Jr.	Med. 1	545 Pine Ave. W., Montreal	Marq. 1545
		St. James St. N., Garden City, L.I., N.Y.	
Knowles, Frederick	Com. 1	85 Fourth Ave., Verdun, Que.	York. 2681F
Koehler, Julius W.	Ap. Sci. 4	772 Sherbrooke St. W., Montreal	Lan. 1567
		Swift Current, Sask.	
Kohos, Helene	Arts 1	4330 Sherbrooke St. W., Montreal	West. 0504
Koppel, Evelyn May	Arts 3	5650 Verdun Ave., Verdun, Que.	York 4244J
Korenberg, Lyon Judah	Med. 4	5491 St. Urbain St., Montreal	Cres. 2887
Kositsky, Abraham	Med. 3	258 Roy St. E., Montreal	Har. 3446

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NAME	FACULTY AND YEAR	ADDRESS	TEL .NO.
Kosowatsky, Joseph R	Med. 3	5681 Jeanne Mance St., Montreal	Cres. 2423
Krakower, Cecil	Med. 3	5622 Jeanne Mance St., Montreal	Cres. 5787
Kramer, Samuel S	Med. 3	1431 Bishop St., Apt. 3, Montreal	Up. 3633W
Krepela, Miles C	Med. 5	640 Prince Arthur St. W., Montreal	Lan. 6809
		2844-35th St., Long Island City, N.Y.	
Kritzwiser, Orville Ed	Med. 2	545 Pine Ave. W., Montreal	Marq. 1545
		1317-15th Ave., Regina, Sask.	
Krohn, Stuart E	Med. 5	1475 Mansfield St., Montreal	Lan. 5733
		22 Faxton St., Utica, N.Y.	
Kronick, Samuel A	Com. 3	3505 Lorne Ave., Montreal	Marq. 2849
		327 Wilbrod St., Ottawa, Ont.	
Kruger, Irving	Dent. 2	5433 Jeanne Mance St., Montreal	Cres. 5806
Krupkin, Nathan	Med. 5	1484 Sherbrooke St. W., Montreal	Up. 4250
		1115 Boyd St., Watertown, N.Y.	
Kussner, Murray I	Arts P	403 St. Joseph Blvd, W., Apt. 8, Montreal	At. 5036
Kwauk, Singsung S	Med. 3	772 Sherbrooke St. W., Montreal	Lan. 1567
		Chung Hwa Studio, Nanking Rd., Shanghai, China.	
Kydd, Mary W	Law 1	426 Sherbrooke St. W., Montreal	Plat. 5034
Kyle, George A	Com. 3	467 Cote St. Antoine Rd., Westmount, Que	West. 2495
Kyte, Reginald W	Ap. Sci. 1	772 Sherbrooke St.W., Montreal	Lan. 1567
		118 York St., Cornwall, Ont.	
Labelle, Dorothy E	Arts 1	5602 Hutchison St., Outremont	At. 7451
Labkov, Samuel	Dent. 4	2030 St. Antoine St., Montreal	York 9553
Labovitch, Issie	Phar. 1	4013 St. Lawrence Blvd., Montreal	Plat. 3721
Lack, David M	Law 1	232 St. Joseph Blvd. W., Montreal	Bel. 2228M
Lacy, Curtis Rogers	Med. 1	3550 Lorne Ave., Montreal	Plat. 2982
		Freehold, N.Y.	
Lafave, Wallace J., Jr	Arts 3	32 Courcelette Ave., Outremont, Que.	At. 0343
Lafleur, John T	Arts 2	3527 Ontario Ave., Montreal	Up. 3838
Laing, Addison Kerr	Ap. Sci. 4	2211 Dorchester St. W., Montreal	Wil. 0922
		9 South St., Hamilton, Ont.	
Laing, David Alexander S	Ap. Sci. 4	218 Redfern Ave., Westmount, Que.	West. 6927
Laing, John A	Com. 1	3434 McTavish St., Montreal	Up. 8633
		Simcoe, Ont.	
Laird, Robert P	Arts 2	20 Anwoth Rd., Westmount, Que.	West. 1253
Laishley, Lyle M	Med. 1	3647 University St., Montreal	Marq. 2806
		514 Lyon St., Ottawa, Ont.	
Lake, Arthur W. L	Arts 1	3565 Lorne Ave., Montreal	Plat. 5963
		Vernons Estate, Antigua, W.I.	
Lambert, H. Hyacinthe	Arts 4	630 Prince Arthur St. W., Apt. 2, Montreal	Marq. 3045
		7 Rideau Gate, Ottawa, Ont.	
LaMontagne, Constance	Grad. Nurses	3560 Peel St., Montreal	Plat. 1251
		428-15th St., Brandon, Man.	Local 153
Lamoureux, Marcel	Ap. Sci. 2	426 Rigaud St., Montreal	Har. 5707
		St. Guillaume (Yamaska), Que.	
Lancey, Margaret S	Arts 3	369 Metcalfe Ave., Westmount, Que.	West. 0426
		Hudson, Que.	
Land, Jacob	Med. 5	3599 St. Famille St., Montreal	Plat. 1407
		11 Lingan Rd., Sydney, N.S.	
Lande, Bernard J	Arts 4	641 Roslyn Ave., Westmount, Que.	West. 7486
Lande, Harold B	Grad. Sch.	39 Holton Ave., Westmount, Que.	West. 0215
Landry, Gerald	Arts 1	200 Wilson Ave., Montreal	Wal. 9599W
Lane, Phyllis A	Arts 2	1225 Bernard Ave., Outremont, Que.	At. 6969
Lang, Abraham Isaac	Law 2	4900 Clarke St., Montreal	Bel. 5486
Lang, Robert C	Arts 1	3473 University St., Montreal	Marq. 4902
		Charteris, Que., R.R. No. 1.	
Langford, Eleanor S	Arts 2	3015 Sherbrooke St., Apt. 12, Westmount, Que.	West. 1655
Langlais, Paul	Law 2	360 Claremont Ave., Apt. 27, Montreal	West. 8868
		8 Berniere Ave., Quebec, Que.	
Langlois, Antoine	Com. 4	3601 University St., Montreal	Plat. 5540
		124 Park Ave., Quebec, Que.	
Langlois, Remy	Dent. 2	3601 University St., Montreal	Plat. 5540
		124 Park Ave., Quebec, Que.	
Langstaff, Thomas A. K	Com. 2	3434 McTavish St., Montreal	Up. 8633
		Kemptville, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Langstroth, George O.	Grad. Sch. 3	1196 Crescent St., Apt. 2, Montreal 176 Dutch Village Rd., Halifax, N.S.	Marq. 1927
Lapin, Abraham Jr	Dent. 1	5461 Esplanade Ave., Montreal	Cres. 4335
Lapin, Albert W	Arts 3	5835 Hutchison St., Montreal	Cres. 6486
Lapin, Benjamin L	Ap. Sci. 3	5451 Esplanade Ave., Montreal	Cres. 4618
Laplante, J. Paul	Med. 5	2280 Ontario St. E., Montreal	Amh. 1374
Larminie, Greta C. S	Arts 1	11 Springfield Ave., Westmount, Que	West. 2712
Larocque, Gerard	Ap. Sci. 2	367 Sherbrooke St. W., Montreal 160 Sussex St., Ottawa, Ont.	Lan. 2979
Latham, Sylvine E	Arts 4	267 Regent Ave., Montreal	Wal. 0846
Latulipe, Joseph E., Jr	Law 2	84 Arlington Ave., Westmount, Que.	West. 6680
Laurelli, Edmond C	Med. 5	3419 University St., Montreal 12 Bainbridge Ave., Providence, R.I.	Up. 1811
Laurie, Alfred F	Ap. Sci. 1	858 McEachran Ave., Outremont, Que.	At. 4649
Laurie, Hope H	Phy. Ed. 1	653 Victoria Ave., Westmount, Que.	West. 2676
Laverty, Edith Jean	Grad. Nurses	Nurses' Home, Royal Victoria Hospital, Montreal 348 Waverley St., Ottawa, Ont.	Plat. 1251
Lavut, Leo David	Arts 1	288 Villeneuve St. W., Montreal	Bel. 3909
Law, Man Fong	Arts 1	177 Lagauchetiere St., Montreal 901 Columbia St., New Westminster, B.C.	Lan. 2687
Lawley, John D	Grad. Sch	5166 Sherbrooke St. W., Montreal	Wal. 5594F
Lawrence, G. R	Grad. Sch	2149 Tupper St., Montreal	Wil. 0085
Lawrence, Shirley H	Arts 1	Royal Victoria College, Montreal 264 Prospect St., Westfield, N.J.	Plat. 0078
Lawrence, Wm. Dawson	Arts 1	551 Earnscliffe Ave., Montreal	Wal. 6775
Lax, Brana	Arts 1	819 Stuart Ave., Montreal 280 St. Cyrille St., Quebec City, Que.	At. 4831
Lea, Harry W	Ap. Sci. 3	1951 Boyle St., Apt. 3., Montreal	Wil. 1672
Learmonth, Janet	Phy. Ed. 1	236 Wood Ave., Westmount, Que. 1915-5th St. W., Calgary, Alta.	West. 8638
LeBaron, Emily J	Phy. Ed. 2	3555 University St., Montreal North Hatley, Que.	Marq. 8420
LeBlanc, Raymond F	Arts 1	5422 Esplanade Ave., Montreal	Cres. 4026
Leboldus, Michael W	Med. 2	3449 Hutchison St., Montreal Vibank, Sask.	Lan. 9916
Lecky, Elizabeth M	Arts 2	163 Cote des Neiges Rd., Montreal	Up. 5735
Ledgerwood, George A	Med. 4	1254 St. Mark St., Apt. 2, Montreal Box 484, Neepawa, Man.	Wil. 7821
Leggat, N. Jane	Arts 3	1511 Crescent St.	Up. 3787
Leggat, William H	Arts 1	1511 Crescent St., Montreal	Up. 3787
Legge (Mrs. R. F.), K. L. B	Grad. Sch	2057 McGill College Ave., Apt. 9, Montreal 6 Roble Rd., Berkeley, Cal.	Lan. 5305
Legge, Robert F	Med. 5	2057 McGill College Ave., Apt. 9 6 Roble Rd., Berkeley, Cal.	Lan. 5305
LeGrow, Charles L	Med. 1	3506 University St., Montreal Broad Cove, B.D.V., Nfld.	Marq. 2055
LeGrow, Walter Harris	Arts 2	3506 University St., Montreal Broad Cove, B.D.V., Nfld.	Marq. 2055
Leibovitz, Freda	Arts 1	376 Notre Dame de Grace Ave., Montreal	Wal. 1540
Leivobitz, Sylvia J	Lib. Sch	376 Notre Dame de Grace Ave., Montreal	Wal. 1540
Leigh, Morton Digby	Med. 3	3513 Park Ave., Montreal 924 Chestnut Drive	Plat. 2354
Leithman, Ezra S. H	Law 2	3620 Colonial Ave., Montreal	Plat. 4862
LeMoine, John G. M	Law 2	New Sherbrooke Apts., 1390 Sherbrooke St	Up. 4335
Lent, Sylvester Mead	Med. 1	3671 Mance St., Montreal Greenwich, Conn.	Har. 8536
Leonard, Maurice E	Med. 3	1490 Drummond St., Montreal 639 Buena Vista Ave., San Francisco, Cal.	Up. 6600
LePage, I. Marguerite	Grad. Sch. 2	3547 University St., Montreal 475 Raglan Rd., Winnipeg, Man.	Marq. 6915
Lepine, V. Champlain	Com. 1	3479 Shuter St., Montreal 129 Manseau St., Joliette, Que.	Marq. 7413
Lerner, Esther Sylvia	Arts 1	4598 St. Urbain St., Montreal	Bel. 6255

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Leroux, André G. E	Com. 1	3686 St. Hubert St., Montreal	Har. 5461
LeSage, Earl E	Med. 5	2031 Mt. Royal E., Montreal	Amh. 3284
Leslie, Chas. W	Law 2	4314 Montrose Ave., Montreal	West. 4025
Lessor, Edward	Arts 2	6175 Durocher Ave., Montreal	At. 6630
Lester, Harold G	Theol. 1	3506 University St., Montreal	Marq. 2055
		550 Ash Ave., Point St. Charles, Que.	
Letch, Edward Huson	Arts 1	66 Oak Ave., St. Lambert, Que.	St.Lam. 889
Letch, Harry G	Ap. Sci. 3	66 Oak Ave., St. Lambert, Que.	St.Lam.889
Letendre, Gerard	Ap. Sci. 2	1022 Mt. Royal E., Montreal	Fron. 7006
Levencrown, Moses	Arts 4	3693 City Hall Ave., Montreal	Lan. 8329
Leverin, Harald L	Ap. Sci. 4	2044 Metcalfe St., Montreal	Lan. 0471
		Rockcliffe, Ottawa, Ont.	
Levi, David	Arts 1	428 Lansdowne Ave., Westmount, Que.	West. 6605
Levin, Herman	Arts 1	610 Belmont Ave., Westmount, Que.	West. 2847
Levin, Rose	Arts 4	5691 Park Ave., Montreal	Cres. 6846
Levine, Rachmiel	Arts 2	504 Duluth St. E., Montreal	Har. 4817
Levine, Theodore I	Arts 4	349 Northcliffe Ave., Montreal	Wal. 8391W
Levinson, Martin	Com. 4	3505 Lorne Ave., Montreal	Marq. 2849
		180 Osgoode St., Ottawa, Ont.	
Levitsky, Nathan A	Arts 3	1458 Crescent St., Apt. 3, Montreal.	Up. 0430W
Levitt, Jacob	Arts 2	323 Grosvenor Ave., Westmount, Que.	West. 8948
Levitzky, Philip	Med. 1 and Arts 4	67 St. Joseph Blvd. W., Montreal	Bel. 8911W
Levy, Nathaniel L	Arts 2	488 Strathcona Ave., Westmount, Que.	West. 2256
Levy, Sidney H	Arts 1	488 Strathcona Ave., Westmount, Que.	West. 2256
Levy, Yvette	Arts 3	1990 Rachel St. E., Montreal	Amh. 1454
Lewis, David	Arts 3	4441 Clarke St., Montreal	Bel. 5450M
Lewis, Reuben	Arts 2	4679 Esplanade Ave., Montreal	Bel. 2178
L'herisson, Camille	Grad. Sch. P.	303 St. Joseph Blvd., Montreal	Bel. 0023
		1406 Bois Verna, Port au Prince, Haiti	
Liang, Florence S. C	Arts 4	Royal Victoria College, Montreal	Up. 4694
Ligget, T	Theol	3473 University St., Montreal	Marq. 4902
		Ormstown, Que.	
Lindeburgh, Marion	Grad. Nurses and Arts P.	3560 Peel St., Montreal	P'at. 1251
		Regina, Sask.	Local 153
Lindsay, Ross Otto	Arts 1	497 Mt. Pleasant Ave., Westmount, Que.	West. 1452
Lindsay, Victor Charles	Ap. Sci. 1	Room 58, Strathcona Hall, Montreal	Lan. 1567
		10, 4th St., Revelstoke, B.C.	
Linton, Everett P	Grad. Sch	Chemistry Building, McGill University, Montreal	Wil. 4217
		Sand Cove Road, West Saint John, N.B.	
Linton, Ralph Dale	Com. 1	346 Belmore Ave., Montreal	Wal. 2974
Lipsey, Marjory C	Arts 2	Royal Victoria College, Montreal	Marq. 2810
		Thetford Mines, Ont.	
Lirot, Stephen L. R	Med. 3	3458 Durocher St., Montreal	Plat. 6545
		28 Crown St., Meriden, Conn.	
Lister, Pauline A	Soc. Workers P.	257 Dorchester St. W., Montreal	
		Woodstock, N.B.	
Lister, William	Arts P. / Theol. 1	6709 Sherbrooke St. W., Montreal	Wal. 0007
Litner, David Laird	Law 2	415 Mt. Royal W., Montreal	At. 3830W
Little, Sidney C	Arts P.	3473 University St., Montreal	Marq. 4902
		56 Princes St., London, Eng.	
Littlefield, Leland A	Med. 4	1490 Drummond St., Montreal	Marq. 2704
		41 Orchard St., Cambridge, Mass.	
Liva, Giusto Albin	Med. 5	3557 Shuter St., Montreal	Plat. 0541
		447 Ave. Y, Brooklyn, N.Y.	
Livshitz, Manuel	Arts 1	497 Lansdowne Ave., Westmount, Que.	West. 1976
Lloyd, David C. P	Arts 2	3521 University St., Montreal	Marq. 1718
Lloyd, Robert E	Arts 1	33 Selby Ave., Westmount, Que.	Wil. 0945
Lochhead, Gordon W	Com. 3	309 Brock Ave. N., Montreal West	Wal. 0498
Lochhead, Kenneth Y	Ap. Sci. 2	42, 10th Ave., Lachine, Que.	Lach. 337

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Lockwood, Clarence K.	Arts 1	602 Cote St. Antoine Rd., Montreal.	West. 5507
Logan, James C.	Arts 2	3506 University St., Montreal Lachute, Que.	Marq. 2055
Lonergan, Gerald M.	Ap. Sci. 1	1492 Bishop St., Montreal Box 395, Buckingham, Que.	Up. 6059
Loomis, Gordon B.	Med. 1	3651 Lorne Ave., Montreal 159 Queen St., Sherbrooke, Que.	Plat. 0938
Loucks, J. Norman	Com. 2	630 Oxford Ave., Montreal	Wal. 9812J
Louis, Ben L.	Arts 4	4217 Western Ave., Westmount, Que.	West. 9247
Louis, M. Alfred	Arch. 1	4217 Western Ave., Westmount, Que.	West. 9247
Loures, Peter Harry	Arts 3	1211 Mountain St., Montreal 165 Worthen St., Lowell, Mass.	Up. 9655
Love, Donald Fraser	Ap. Sci. 3	525 Prince Arthur St. W., Montreal. New Glasgow, N.S.	
Lovering, William L.	Com. 2	3637 University St., Montreal 76 Glen Rd., Toronto, Ont.	Plat. 2681
Low, Charles D.	Ap. Sci. 4	3516 Shuter St., Montreal 376 Lewis St., Ottawa, Ont.	Marq. 8460
Low, John H.	Dent. 2	627 Milton St., Montreal Westport, N.Y.	Marq. 2007
Low, J. H.	Theol. 1	3506 University St., Montreal 14 Keswick Rd., Mitcham, Surrey, England.	Marq. 2055
Low, Ruth Margaret	Arts 4 and Soc. Workers	Pont Viau P.O., Que., near Montreal.	Dup. 2505
Luard, Evelyn M.	Grad. Nurses 1.	3560 Peel St., Montreal Burford, Ont.	Plat. 1251, Local 153
Lucas, James R.	Med. 2	3555 University St. 52, 84th St., Jackson Heights, N.Y.	Marq. 8420
Luft, Raymond	Med. 1	1490 Drummond St., Montreal Norwood, Rhode Island	Marq. 2704
Luke, Josephus C.	Med. 4	41 Brock Ave. N., Montreal West	Wal. 0710
Luke, Lewis W.	Arts 1	1170 Dorchester St. W., Montreal	Marq. 6933
Lunn, Alice Jean E.	Arts 2	458 Argyle Ave., Westmount, Que.	West. 1630
Lunn, Stanley K.	Arts 4	458 Argyle Ave., Westmount, Que.	West. 1630
Lusher, David W.	Arts 2	3812 Clarke St., Montreal	Plat. 7332
Lynch, Herbert C.	Med. 2	640 Prince Arthur St. W. Yakima, Washington	Montreal. Lan. 6809
Lynch, John Gordon	Med. 3	3637 University St., Montreal Bell Island, Nfld.	Plat. 2681
Lynch, Margarett J.	Arts P	339 Victoria Ave., Apt. 7, Westmount, Yakima, Washington	
Lynch, Marjorie G.	Arts 1	505 Victoria Ave., Montreal	West. 9197
Lyon, Harold P.	Arts 2	310 Hingston Ave., Montreal	Wal. 6028
Lyster, Norman C.	Med. 5	1499 Crescent St., Montreal Kennedy, Sask.	Up. 5432
Lyth, Phyllis	Phy. Ed. 1.	3466 University St., Montreal Box 178, Valleyfield, Que.	Marq. 2608
Macalister, John N. G.	Arts 3	4132 Dorchester St. W., Westmount, Que.	West. 3863
McAuley, Bertram D.	Ap. Sci. 3	1496 Bishop St., Montreal 200 Adelaide St., St. John, N.B.	Up. 4156
McAuley, Mary A.	Arts 1	Royal Victoria College, Montreal 1 Court House Sq., Brockville, Ont.	Plat. 0078
McBride, Eleanor C.	Arts 2	638 Roslyn Ave., Westmount, Que.	West. 0036
McBroom, Walter W.	Ap. Sci. 2	5299 Jeanne Mance St., Montreal	Cres. 1012
McCabe, Russell Irving	Ap. Sci. 4	3609 University St., Montreal St. Johns, Que.	Marq. 4300
McCaffrey, Helen K.	Arts 2	428 Metcalfe Ave., Westmount, Que.	West. 1956
McCarrey, Harold J.	Law 1	2082 Sherbrooke St. W., Montreal	Wil. 1568
MacCarteney, Hartwell, Jr	Com. 1	3578 University St., Montreal 8326 Lefferts Ave., Kew Gardens, L.I., N.Y.	Up. 3720W
McConnell, John G.	Arts 1	1475 Pine Ave. W., Montreal	Up. 1612
McConnell, Wilson G.	Ap. Sci. 3	1475 Pine Ave., Montreal	Up. 1612
McCormick, Douglas G.	Com. 1	3578 University St., Montreal 18 Brant Rd. N., Galt, Ont.	Marq. 1047
McCormick, Geo. A.	Arts 3	3609 University St., Montreal 383 Wilbrod St., Ottawa, Ont.	Marq. 4300
McCormick, Paul H.	Com. 2	3578 University St., Montreal 18 Brant Rd. N., Galt, Ont.	Marq. 1047

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
McCrimmon, Donald Ross	Med. 1	772 Sherbrooke St. W., Montreal Huntingdon, Que.	Lan. 1567
McCrimmon, Frederick G.	Med. 4	772 Sherbrooke St. W., Montreal Huntingdon, Que.	Lan. 1567
McCuaig, Hugh R.	Com. 2	13 Holton Ave., Montreal	West. 6326
MacCulloch, Margaret	Arts 1	493 Sherbrooke St. W., Montreal Summerstown, Ont.	Marq. 1493
McCulloch, John Henry	Ap. Sci. 3	7017 Sherbrooke St. W., Montreal	Wal. 8471
McCully, Clarence M.	Arts 3	3506 University St., Montreal Petitcodiac, N.B.	Marq. 2055
McCurdy, Donald R.	Arts 3	Ritz Carlton Hotel, Montreal "Emscote," Halifax, N.S.	Up. 7180
Macdonald, Aida Ranald	Arts 1	3457 Shuter St., Montreal	Marq. 7669
MacDonald, Edith M.	Phy. Ed. 2	3466 University St., Montreal Lake Megantic, Que.	Marq. 2608
MacDonald, Jean E.	Music	38 Dufferin St., Granby, Que.	
McDonald, Jean LeMaistre	Arts 1	47 Windsor Ave., Westmount, Que.	West. 6665
MacDonald, J. W.	Theol. 3	3485 McTavish St., Montreal Thoren, N.S.	Marq. 2720
McDonald, Philip Robb	Arts 4	47 Windsor Ave., Westmount, Que.	West. 6665
MacDonald, Esther Naomi	Arts 1	493 Sherbrooke St. W., Montreal 20 Mountain St., Granby, Que.	Marq. 1439
MacDonald, Reta E.	Arts 4	4358 St. Catherine St., Westmount, Que.	West. 1278
Macdonnell, James G.	Arts 2	3433 Peel St., Montreal 1st Nat'l. Bank, Pasadena, Calif.	Up. 2143
McDougall, Allan Houliston	Com. 4	617 Roslyn Ave., Westmount, Que.	West. 4142
McDunnough, Nelson P.	Ap. Sci. 1	3556 Shuter St., Montreal 11 Fraser St., Quebec City, Que.	Marq. 8788
McEwen, Bennett B.	Med. 3	3506 University St., Montreal Maxville, Ont.	Marq. 2055
McEwen, Marjorie Janet	Arts 4	3501 Park Ave., Montreal Huntingdon, Que.	Plat. 7014
McEwen, Nelson F.	Arts 3	Apt. 2, 1515 Chomedy St., Montreal.	Wil. 9052
McEwen, Ruth E.	Arts 1	3501 Park Ave., Montreal Huntingdon, Que.	Plat. 7014
McFarland, Frederick J.	Com. 1	3534 University St., Montreal 1014 Hillcrest Ave., Calgary, Alberta	Up. 7253
Macfarlane, Anne M.	Arts 4	635 Sydenham Ave., Westmount, Que.	West. 4144
Macfarlane, David Bell	Arts P	3558 Lorne Ave., Montreal Huntingdon, Que.	Plat. 2342
MacFarlane, Gordon N.	Arts 2	820 Dunlop Ave., Outremont, Que.	At. 2635
MacGachen, Freda K.	Grad. Sch	242 Redfern Ave., Westmount, Que.	West. 6368
MacGachen, Naomi Rose	Arts 1	242 Redfern Ave., Westmount, Que.	West. 6368
McGee, Leonard D.	Ap. Sci. 1	63 Bruce Ave., Westmount, Que.	West. 6968
McGerrigle, Andrew J.	Grad. Sch	3634 St. Famille St., Montreal Ormstown, Que.	Har. 6590
MacGibbon, Kenneth W.	Ap. Sci. 3	3667 Jeanne Mance St., Montreal Brownsburg, Que.	Har. 5427
McGillivray, George Bertram	Com. 3	3581 University St., Montreal 2176 Lorne St., Regina, Sask.	Marq. 3842
McGrath, William A.	Arts 2	12 Alder Ave., Troy, N.Y.	
McGreevy, Brian Irvine	Arts 4	3433 Peel St., Montreal 2 Rue De Breboeuf, Quebec, Que.	Up. 2143
McGreggs, Francis J.	Arts 2	1455 Drummond St., Montreal St. Albans, Vermont	Marq. 3998
McGregor, Frank Roy	Med. 5	640 Prince Arthur St. W., Montreal. 1 Belmont House, Victoria, B.C.	Lan. 6809
MacGregor, Hugh D.	Arts 1	10 Lilac Ave., Dorval, Que.	
MacGregor, Norman Fox	Arch. 2	331 Clark Ave., Westmount, Que. St. Andrews E., Quebec, Que.	West. 1345
McGregor, Theodora Munn	Arts 1	Royal Victoria College, Montreal 302 Winslow St., Watertown, N.Y.	Plat. 0078
McGuire, James Francis	Ap. Sci. 2	3706 Park Ave., Montreal	Har. 6691
McHarg, Muriel S.	Grad. Sch	45 Montreal St., Sherbrooke, Que.	
McHugh, Hollie Edward	Arts 2	1280 Bernard Ave., Apt. 18, Mont- real	At. 3158
McIntosh, Arlie John A.	Arts 3	2000 McGill College Ave., Apt. 35, Montreal Inkerman, Ont.	Plat. 1822

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
McIntyre, George Douglas	Arts 3	536 Notre Dame de Grace Ave., Montreal	Wal. 0668
McIntyre, J. Murray	Arts 2	536 Notre Dame de Grace, Ave. Montreal	Wal. 0668
MacIntyre, William Cameron	Com. 2	3485 McTavish St., Montreal	Marq. 2720
		Finch, Ont.	
McIntyre, William S.	Med. 3	3578 University St., Montreal	Marq. 1074
		Montague, P.E.I.	
McKay, Chipman O.	Med. 5	3516 Shuter St., Montreal	Marq. 8460
		28 Wright St., St. John, N..B	
McKay, Donald D.	Grad. Sch	3578 University St., Montreal	Marq. 1929
		Lorne, N.S.	
McKay, John Wesley G.	Arts 3	3592 University St., Montreal	Up. 9109
McKay, Margaret Agnes	Arts 1	715 Melrose Ave., Montreal	Wal. 7788J
McKay, Margaret E.	Grad. Sch	548 Prince Arthur St. W., Montreal.	Marq. 7845
		122 Temperance St., New Glasgow, N.S.	
MacKay, Norman	Arts P	Presbyterian College, Montreal	Marq. 2720
		Stornoway, Lewis, Scotland	
MacKay, Robert deWolfe	Law 1	1509 Sherbrooke St. W., Montreal	Up. 9552
McKean-Smith, Philip	Com. 1	3841 Boulevard St. Hubert, Montreal	Fron. 0639
McKechnie, Robert Ed.	Med. 5	3647 University St., Montreal	Marq. 2806
		1091 Broughton St., Vancouver, B.C.	
McKelvey, Morley A.	Med. 2	151 Brock Ave. S., Montreal West	Wal. 2863
MacKenna, Clair Lovett	Med. 1	3578 University St., Montreal	Marq. 1074
		Wolfville, N.S.	
MacKenzie, Archibald F.	Arts 3	711 Sherbrooke St. W., Montreal	
MacKenzie, David W.	Arts 4	3437 Redpath St., Montreal	Up. 1014
McKenzie, John Keith	Arts 3	3506 University St., Montreal	Marq. 2055
		Gobles, Ont.	
MacKenzie, Kenneth Reading	Arts 2	29 Linton Apts., Sherbrooke St. W., Montreal	Up. 5392
McKergow, Alfred Taylor	Law 2	772 Sherbrooke St. W., Montreal	Lan. 1567
McKibbon, Leita Y.	Phy. Ed	548 Prince Arthur St. W., Montreal	Marq. 7845
MacKinnon, Charles Walter	Com. 1	Presbyterian College, Montreal	Marq. 2720
		83 Upper Prince St., Charlottetown, P.E.I.	
MacKinnon, Eleanor K.	Arts 3	Royal Victoria College, Montreal	Plat. 0078
		65 Portland Ave., Sherbrooke, Que.	
MacKinnon, Jean Douglas	Arts 3	Royal Victoria College, Montreal	Plat. 0078
		65 Portland Ave., Sherbrooke, Que.	
MacKinnon, Josepha B.	Arts 4	Royal Victoria College, Montreal	Plat. 0078
		65 Portland Ave., Sherbrooke, Que.	
McKinnon, Stuart Duncan	Med. 5	3698 St. Famille St., Montreal	Har. 3792
		82 Angus Crescent, Regina	
McLachlin, Donald M.	Arts 1	2064 Mansfield St., Montreal	Lan. 6825
		Arnprior, Ont.	
MacLaggan, Marjorie F.	Grad. Sch	3454 University St., Montreal	Marq. 2619
		New Glasgow, N.S.	
Maclean, Ethel Margaret	Med. 5	3492 Peel St., Montreal	Up. 2132
		4312 Pine Cres., Vancouver, B.C.	
MacLean, Jessie Marion	Arts 2	493 Sherbrooke St. W., Montreal	Marq. 1439
		176 Powell Ave., Ottawa, Ont.	
MacLean, Lorne Archibald	Med. 3	3506 University St., Montreal	Marq. 2055
		New Wiltshire, P.E.I.	
MacLean, Margaret E.	Arts 1	825 De l'Epée Ave., Outremont, Que.	At. 7137J
McLean, Sterling A.	Med. 1	471 Prince Arthur St. W., Montreal	Plat. 5058
		17 So. Russell St., Plymouth, Mass.	
McLeish, Margaret B.	Arts 4	674 Harvard Ave., Montreal	Wal. 4692
MacLellan, William L.	Arts 2	3485 McTavish St., Montreal	Marq. 2720
		R.R. No. 2, New Glasgow, N.S.	
McLennan, Angus R.	Ap. Sci. 1	447 Clendenan Ave., Toronto, Ont.	
MacLennan, Donald S.	Arts 1	3485 McTavish St., Montreal	Marq. 2720
		Maymont, Sask.	
MacLennan, Helen B.	Med. 2	67 Holton Ave., Westmount, Que.	West. 8949
MacLeod, Colin Munro	Med. 3	578 William David St., Montreal	Clair. 8048
MacLeod, David I.	Arts 2	3506 University St., Montreal	Marq. 2055
		Alexandria, Ont.	
MacLeod, John Wendell	Med. 5	1452 Union Ave., Montreal	Lan. 7742
McLeod, Laura Eleanor	Arts 1	611 Victoria Ave., Westmount	West. 1020

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
McLure, F. Irene	Arts 3	1620 Aird Ave., Montreal	Clair. 5655W
McManamy, Emmett	Law 1	Mrs. Wright, University St., Montreal 79 Queen St., Sherbrooke, Que.	
McMartin, William F	Med. 1	4727 Western Ave., Westmount, Que.	West. 0870
McMaster, David Ross	Arts 4	43 MacGregor St., Montreal	Up. 0103
McMaster, William R.	Com. 4	21 Renfrew Ave., Westmount, Que.	West. 3971
McMath, Andrew A. B	Arts 1	129 Edison Ave., St. Lambert, Que.	St. Lam. 224
MacMillan, Donald C	Grad. Sch	3485 McTavish St., Montreal Finch, Ont.	Marq. 2720
McMillan, John A	Med. 2	3647 University St., Montreal 4389, 3rd Ave. W., Vancouver, B.C.	Marq. 2806
MacMillan, K. G	Theol. 1	3506 University St., Montreal Lancaster, Ont.	Marq. 2055
McNally, Francis J	Law 1	772 Sherbrooke St. W., Montreal Campbell's Bay, Pontiac, Que.	Lan. 1567
McNamee, Kenneth F	Arts 3	281 Querbes Ave., Outremont, Que.	At. 1497
McNamee, Thomas F	Law 2	281 Querbes Ave., Outremont, Que.	At. 1497
MacNaughton, Anne E	Arts 2	3454 University St. Annex, Montreal. 342 Madison Ave., New York City	Marq. 2610
McNaughton, Eleanor B	Arts 1	4565 Sherbrooke St. W., Westmount, Que.	West. 1408
McNaughton, Francis L	Med. 4	4565 Sherbrooke St. W., Westmount, Que.	West. 1408
McNaughton, John G	Arts 3	4565 Sherbrooke St. W., Westmount, Que.	West. 1408
MacNeel, John C	Arts 1	Presbyterian Res., Montreal Glace Bay, N.S.	Marq. 2720
McNeill, Dacie M. M	Arts 4	3489 Shuter St., Montreal 108 Buell St., Brockville, Ont.	Marq. 3440
McNiff, Nelson Ed	Ap. Sci. 1	74 Brodeur Ave., Montreal	Wal. 3897
MacNutt, William MacG.	Arts 1	3452 Shuter St., Montreal Malpeque, P.E.I.	Plat. 0446
McPhail, M. K	Grad. Sch	3635 Lorne Crescent, Montreal	Marq. 8729
Macphail, Margaret S	Com. 1	Royal Victoria College, Montreal So. Porcupine, Ont.	Plat. 0078
McRae, Duncan R	Grad. Sch	1233 Dorchester St. W., Montreal Bainsville, Ont.	Up. 7479
MacRae, Malcolm C	Arts 1	3506 University St., Montreal Lancaster, Ont., R.R. No. 2.	Marq. 2055
MacRae, Norman A	Grad. Sch	Macdonald College, Que. Dunvegan, Ont.	
McTeer, George S	Com. 3	3581 University St., Montreal 1934, 12th St. W., Calgary, Alta.	Plat. 6979
McVey, George A	Com. 1	468 Mt. Stephen Ave., Westmount, Que.	West. 3876
McVey, V. Alice	Arts 2	184 Macaulay Ave., St. Lambert, Que.	St. Lam. 652M
Macey, Henry P	Med. 3	3535 Shuter St., Montreal Minnedosa, Man.	Plat. 1743
Mack, Richard G	Med. 1	640 Prince Arthur St. W., Montreal. Slatington, Pa.	Lan. 6809
Magill, Robert M	Arts P	Presbyterian Theol. College, Montreal St. Andrews Manse, Monkland, Ont.	Marq. 2720
Magor, Philip D	Ap. Sci. 4	524 Mt. Pleasant Ave., Westmount, Que.	West. 1169
Magwood, Marguerite E	Phy. Ed. 2	548 Prince Arthur St. W., Montreal. 128 Second St., Cornwall, Ont.	Marq. 7845
Mahaffy, William D	Arts 1	8 Cedar Ave., Pt. Claire, Que	Pt. Cl. 56
Mahoney, Joseph J. B	Med. 2	1435 Drummond St., Montreal 3 Falls Ave., Norwich, Conn.	Up. 1631
Makiyama, T. Richard	Arts 3	130 Vendome Ave., Montreal 62 Tansumachi, Azabu, Tokyo, Japan	Wal. 6919
Malamud, Nathan	Med. 5	7620 St. Hubert St., Montreal	Cal. 9344W
Malinsky, Maurice L	Med. 3	4581 Park Ave., Montreal	Bel. 0602
Malkin, John L	Com. 3	538 Prince Arthur St. W., Montreal. 3260 Marine Dr., Vancouver, B.C.	Marq. 2740
Malloy, Connolly J	Med. 2	120 Sherbrooke St., Montreal Blind River, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Malloy, John Dorian	Med. 5	120 Sherbrooke St. W., Montreal...	
		Blind River, Ont.	
Mandel, Bernard	Arts 2	5178 St. Urbain St., Montreal	Cres. 9660
Mann, Mrs. Era D	Soc. Workers P.	960 Decarie Blvd., Apt. 3, Montreal	Wal. 7138
Mansell, Lloyd C	Arts 2	2037 Metcalf St., Montreal	Lan. 7751
		Iroquois Falls, Ont.	
Mansell, Robert L	Arts 1	2037 Metcalfe St., Montreal	Lan. 7751
		Iroquois Falls, Ont.	
Manson, Robert E	Ap. Sci. 4	6010 Durocher St., Apt. 5, Montreal	At. 5357
Maplebeck, Thomas Eric	Med. 5	2074 McGill College Ave., Montreal.	
		York Beach, Me.	
Marchand, Paul R	Dent. 4	3681 Park Ave., Montreal	Har. 3081
Marcus, Albert	Arts 3	385 Edward Charles, Apt. 11, Montreal	At. 7306W
Marcus, Sarah	Arts 3	266 Bernard St., Montreal	Cres. 3993
Margolick, Moses	Arts 3	6132 Durocher Ave., Outremont, Que.	At. 5102
Markham, Oswald Scott	Arts 4	503 Victoria Ave., Montreal	West. 8410
Markey, Donald C	Arts 1	2133 Dorchester St., Montreal	Wil. 6333
Marler, John de M	Law 1	3420 Peel St., Montreal	Up. 1518
Marshall, Adam S	Ap. Sci. 2	666 Old Orchard Ave., Montreal	West. 2529J
		175 Denis St., Sault Ste. Marie, Ont.	
Marshall, Arthur J	Arts 1	3473 University St., Montreal	Marq. 4902
		132 Carr Road, Walthamstow, London, Eng.	
Marshall, Margaret E	Phy. Ed. 1	3466 University St., Montreal	Marq. 2608
		Dunnville, Ont.	
Martin, Earl P	Ap. Sci. 1	1492 Bishop St., Montreal	Up. 6059
		Buckingham, Que.	
Martin, Henry D	Arts 1	3062 Westmount Blvd., Westmount.	West. 9892
Martin, Rochfort K	Arts 4	690 Sherbrooke St. West., Montreal	Lan. 7141
		1054 McGregor Ave., Victoria	
Martin, Thomas Malcolm	Med. 1	843 McEachran Ave., Outremont, Que.	At. 5951M
Mason, Ezra B	Arts 3	3581 University St., Montreal	Marq. 3842
		150 Glen St., Glen's Falls, N.Y.	
Mason, Freda K	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		Lachute, Que.	
Mason, John Wright	Med. 3	3580 Durocher St., Montreal	Plat. 7422
		Sharon, Vt.	
Mason, Orley B	Ap. Sci. 1	3581 University St., Montreal	Marq. 3842
		c o J. O. Mason, Grand'Mere, Que.	
Masse, Gaston W	Ap. Sci. 3	14 Aberdeen, Sherbrooke, Que.	
Masse, Jules T	Med. 2	St. Louis Sq., Montreal	Har. 3757
Massey, Ernest E	Grad. Sch.	Macdonald College, Que.	Ste.Anne166
Mastrianni, M. A	Arts 2	3500 Shuter St., Montreal	Marq. 9915
		Mechanicville, N.Y.	
Mather Betty	Lib. Sch.	3721 Mance St., Montreal	Lan. 2714
		Wells, Mich.	
Matheson, Arthur I	Com. 2	3434 McTavish St., Montreal	Up. 8633
		24 Woodlawn Ave., Ottawa, Ont.	
Matheson, John H. P	Ap. Sci. 4	Apt. 11, 3660 Hutchison St., Montreal	Har. 2584
		74 Temperance St., New Glasgow, N.S.	
Mathews, Arnold A	Theol. 3	658 De l'Epée Ave., Outremont, Que.	At. 0690W
Matthams, Philip	Th o'. 2	690 Sherbrooke St. W., Montreal	Lan. 7141
		Danbury, Essex, England	
Matthews, William W	Com. 1	6148 Hutchison St., Montreal	At. 2080
Maughan, George B	Med. 1	38 Edge Hill Rd., Westmount, Que.	West. 5952
Maxwell, Charles Sydney	Arts 1	102 Mercier St., St. Johns, Que	St. Johns 629M
Maxwell, Jean M	Arts 1	107 Bedbrooke Ave., Montreal West	Wal. 1794M
Maycock, William d'A	Arts 2	Apt. 45, 1840 Bayle St., Montreal	Wil. 9717
		c o M. F. Waters, 9 Lincoln's Inn Fields, London, W.C.1.	
Mayerovitch, Harry	Arch. 2	2067 Stanley St., Montreal	Lan. 0661
		Rockland, Ont.	
Mayerovitch, Robert	Ap. Sci. 1	2067 Stanley St., Montreal	Lan. 0661
		Rockland, Ont.	
Mayoff, Moses	Arts 4	379 Edward Charles St., Apt. 4, Montreal	At. 7495M

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Maytum, Helen E.	Med. 4	548 Prince Arthur St. W., Montreal. Fowler, Kansas	Marq. 7845
Meakins, George G.	Com. 1	1176 Sherbrooke St. W., Montreal. 48 Proctor Blvd., Hamilton, Ont.	Marq. 1447
Meakins, J. Layette	Arts 1	61 Rosemount Ave., Montreal	West. 0821
Mellor, Alfred G.	Arts 1	Box 21, Richelieu, Que.	Cham'y. 230
Mellor, C. Douglas	Com. 1	793 Melrose Ave., Montreal	Wal. 8406F
Mellor, John H.	Ap. Sci. 4	Box 21, Richelieu, Que.	Cham'y 230
Mellor, M. Dorothea	Med. 5	Box 21, Richelieu, Que.	Cham'y 230
Melynchuk, John A. F.	Med. 2	3449 Hutchison St., Montreal 9300 Cortage Grove, Chicago, Ill.	Lan. 9916
Mendels, Morton M.	Law 1	1140 Notre Dame St. W., Montreal. 3757 Wellington St., Verdun, Que.	York 7029
Mendelsohn, Lewis	Ap. Sci. 1	2086 Tupper St., Montreal	Wil. 7585
Mendelsohn, Sarah E.	Arts 2	40 Joyce Ave., Outremont, Que.	At. 4797
Mendelssohn, Manuel J	Arch. 1	4849 Hutchison St., Montreal	At. 4708
Mercer, John L.	Med. 1	304 Prince Arthur St. W., Montreal. 174 West Main St., Maline, N.Y.	Plat. 3624
Mercer, Miriam	Grad. Nurse 1	493 Sherbrooke St. W., Montreal Long Island, Nfld.	Marq. 1439
Mercer, William C.	Arts 1	3506 University St., Montreal Bay Roberts, Nfld.	Marq. 2055
Merrett, John Campbell	Arch. 4	90 Westmount Blvd, Que.	West. 5367
Merrick, Hollis W.	Med. 2	1022 Sherbrooke St. W., Montreal. Fort Covington, N.Y.	Plat. 6482
Mersereau, Harris Coburn	Arts 2	1441 McKay St., Montreal	Up. 1905
Mertz, M. Mertz	Arts P	Royal Victoria Annex, 3454 University St., Montreal 2700 Regina Ave., Regina, Sask.	Marq. 2610
Messinger, Herbert B.	Med. 4	2272 Souvenir Ave., Montreal 175 Albemarle St., Rochester, N.Y.	Wil. 7919
Metayer, Ted James	Ap. Sci. 1	4191 Sherbrooke St. W., Montreal.	West. 9904
Metcalfe, Robert V.	Arts P	3473 University St., Montreal 17 Main St., Aylmer, Que.	Marq. 4902
Middleton, Oliver	Ap. Sci. 3	3538 Lorne Ave., Montreal 85 Freshfield Rd., Brighton, Eng.	Plat. 0835
Migneron, Adrien	Arts 1	1655 Cartier St., Montreal	Fron. 4002
Milburne, Kathleen E.	Arts 3	503 Oxford Ave., Montreal	Wal. 1039
Mill, Eva	Grad. Nurses	1863 Dorchester St. W., Montreal. 468 St. Cyrille St., Quebec City	Wil. 5025
Millen, Stephen B.	Law 3	690 Sherbrooke St. W., Montreal DeCasson Rd., Westmount, Que.	Lan. 7141
Miller, Evelyn	Arts 4	74 McNider Ave., Outremont, Que.	At. 4281
Miller, Lindsay	Ap. Sci. 1	336 Melrose Ave., Montreal	Wal. 1435J
Miller, Maisie K.	Med. 1	3462 St. Famille St., Montreal 98 Wesley St., Moncton, N.B.	Har. 1719
Milligan, Margaret E.	Arts 3	108 Edison Ave., St. Lambert, Que.	St. Lam. 114
Milliken, Joseph Hunt	Med. 3	545 Pine Ave. W., Montreal 3858 Howe St., Oakland, Calif.	Marq. 1545
Mills, Alan S.	Ap. Sci. 2	517 Old Orchard Ave., Montreal	Wal. 2636
Millward, James B.	Arts 1	3500 Shuter St., Apt. 1, Montreal	Marq. 9917
Minnes, Harold E.	Med. 4	3605 University St., Montreal 364 Lewis St., Ottawa, Ont.	Plat. 0354
Minnes, James F.	Med. 1	3605 University St., Montreal 364 Louis St., Ottawa, Ont.	Plat. 0354
Minnion, Arthur M.	Arts 2	3025 Sherbrooke St. W., Apt. 12, Montreal	West. 2061
Mirabile, Charles S.	Med. 5	3419 University St., Montreal Thompsonville, Conn.	Marq. 3089
Mirsky, I. Arthur	Med. 4	227 St. Joseph Blvd. W., Montreal.	Bel. 9439
Mischpeter, Meta Emma	Soc. Workers	1124 Dorchester St. W. (Y.W.C.A.), Montreal Indian Head, Sask.	Up. 5230
Mitashefsky, Abe	Arts 4	3687 City Hall Ave., Montreal	Lan. 1979
Mitchell, David J.	Ap. Sci. 1	East Templeton, Que.	
Mitchell, Elsie M.	Arts 4	6 Trafalgar Pl., Montreal	West. 0174
Mitchell, Mavis	Phy. Ed. 2	3555 University St., Montreal 1736 Superior Ave., Cleveland, Ohio	Marq. 8420
Mitchell, Norma Lloyd	Arts 3	6 Tra algar Pl., Montreal	West. 0174
Mitchell, Pauline C.	Arts P	3448 Stanley St., Montreal	Up. 0138
Mitchell, Robert W.	Ap. Sci. 1	135 Balfour Rd., Montreal	At. 5537W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO
Mitchell, Thelma M	Arts 2	944 Dunlop Ave., Outremont, Que.	At. 4836
Mode, George S.	Arts 2	3524 Shuter St., Montreal	Marq. 9868
		Vankleek Hill, Ont.	
Moffat, Agnes K	Med. 4	570 Milton St., Apt. 3, Montreal	Marq. 9966
		32 Denison Rd. W., Weston, Ont.	
Mollot, Edward E.	Dent. 2	4675 Wellington St., Verdun, Que.	York 0983
Montgomery, Frances L.	Soc. Workers 2	158 Hallowell St., Westmount, Que.	We.t. 8476
		Sawyerville, Que.	
Montgomery, George H.	Arts 1	3562 Mountain St., Montreal	Up. 4409
Montgomery, Robert A.	Arch. 4	3429 Peel St., Montreal	Up. 5947
		Phillipsburg, Que.	
Montgomery, Thomas R.	Com. 2	317 Broadway, Lachine, Que.	Lach. 288
Montgomery, Wallace O.	Com. 3	1025 Sherbrooke St. W., Montreal.	Up. 4418
		21 Warner Ave. E., Angus, Que.	
Montgomery, William B.	Ap. Sci. 3	3429 Peel St., Montreal	Up. 5947
		Penticton, B.C.	
Mooney, Malcolm C.	Arts 2	1550 MacKay, Apt. 15, Montreal	Up. 3816J
		316 Grande Allée, Que.	
Moore, A. B.	Theol. 3	3506 University St., Montreal	Marq. 2055
		Ayer's Cliff, Que.	
Moore, George A.	Ap. Sci. 1	3618 Oxenden Ave., Montreal	Marq. 8505
		Westboro, Ont.	
Moore, Ruth E.	Grad. Sch.	359 Querbes Ave., Outremont, Que.	At. 2345
Moore, William H.	Grad. Sch.	466 Grosvenor Ave., Westmount, Que.	West. 1431J
Moran, Maude G. T.	Arts 3	4840 Western Ave., Montreal	West. 3883
Moran, Vera M. T.	Arts P.	4840 Western Ave., Montreal	West. 3883
Morazin, J. Gaston	Grad. Sch.	258 Sherbrooke St. W.	Har. 9436
		94 St. Cyrille St., Quebec, Que.	
Morehouse, Fred R.	Grad. Sch.	473 Strathcona Ave., Westmount, Que.	
		2 Rupert St., Amherst, N.S.	
Morehouse, Oscar E.	Med. 2	3516 Shuter St., Montreal	Marq. 8460
		Upper Keswick, N.B.	
Morgan, G. Lloyd.	Arts 2	3506 University St., Montreal	Marq. 2055
		Port de Grave, Nfld.	
Morgan, Oliver M.	Grad. Sch.	Apt. 16, 1429 Stanley St., Montreal	Marq. 5890
		Ripley, Ont.	
Morisset, Jos. F.	Ap. Sci. 1	2041 Victoria St., Montreal	Lan. 4776
		Ville Marie, Que.	
Morrill, Elinor L.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		25 Prospect St., Sherbrooke, Que.	
Morris, Lindsay G.	Com. 2	83 Columbia Ave., Montreal	West. 9071
Morrison, Claude W.	Ap. Sci. 3	148 Portland Ave., Montreal	At. 0111
Morrison, Gordon M.	Med. 2	772 Sherbrooke St. W., Montreal	Lan. 1567
		San Mateo, Cal.	
Morrison, Janet S.	Arts 2	875 McEachran Ave., Outremont, Que.	At. 2064
Morrison, Norman D.	Med. 1	772 Sherbrooke St. W., Montreal	Lan. 1567
		San Mateo, Calif.	
Morrison, Thomas Jack	Ap. Sci. 4	456 Claremont Ave., Westmount, Que.	
Morrow, Ives T.	Arts 2	Presbyterian College, Montreal	Marq. 2720
		410 Roxton Rd., Toronto, Ont.	
Morse, Willis J.	Ap. Sci. 1	3506 University St., Montreal	Marq. 2055
		Grand Falls, Nfld.	
Morton, Edward A.	Arts 3	1018 Sherbrooke St. W., Montreal	Lan. 5778
		St. Albans, Vt.	
Morton, Nelson Whitman	Arts 4	3485 McTavish St., Montreal	Marq. 2720
Motley, Phillips C.	Arts 1	1 Sunnyside Ave., Westmount, Que.	West. 2469
Mott, Frederick D.	Med. 3	2021 Peel St., Montreal	Lan. 4728
		75 Midland Ave., Montclair, N.J.	
Mount, John P.	Com. 2	2525 Durocher St., Montreal	
Mowatt, Andrew J.	Arts 1	318 Cote St. Antoine Rd., Westmount, Que.	West. 6192F
Moxon, Henry W.	Ap. Sci. 4	233 Oxford Ave., Montreal	Wal. 4236J
		7424 Prince Edward St., Vancouver, B.C.	
Moynan, Jeffrey S.	Ap. Sci. 1	281 West Hill Ave., Montreal	Wal. 3740
		Waterloo, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Mueller, W. H	Grad. Sch	3530 Durocher St., Montreal	Plat. 0316
		Didsbury, Alta.	
Mullally, James E	Law 1	2021 Union Ave., Montreal	Har. 9560
Muloch, Perry M	Partial	The High School, Verdun, Que.	
		Upper La Have, Lunenburg Co., N.S.	
Munich, Jr., A. Gaston	Law 1	Mt. Royal Hotel	Up. 7771
Munn, Daniel	Arts P	4273 Dorchester St., Westmount, Que.	West. 1502
Munn, Mary E	Arts P	4273 Dorchester St., Westmount, Que.	West. 1502
Munro, Charles A	Med. 4	3442 Durocher St., Montreal	Marq. 8838
		Brockway, Pa.	
Munroe, David C	Grad. Sch	235 Strathearn Ave., Montreal West.	West. 47922
Munroe, William G. C	Med. 1	235 Strathearn Ave., Montreal West.	West. 479
Murdock, A. Earl	Arts 2	3500 University St. (Union College).	Marq. 2055
		Osgoode R.R. No. 4.	
Murnen, Owen F	Dent. 2	1175 Bishop St., Montreal	Up. 1149
		809 Morris St., Ogdensburg, Ont.	
Murphy, Robert G	Med. 2	1490 Drummond St., Montreal	Marq. 2704
		17 Mayflower St., Providence, R.I.	
Murray, Charles C	Arts 2	3506 University St., Montreal	Marq. 2055
		Stoney Creek, Ont.	
Murray, G	Theol	3485 McTavish St., Montreal	Marq. 2720
		Stornoway, Scotland	
Murray, John M	Arts 1	3434 McTavish St., Montreal	Up. 8633
		212 Wallace Ave., Buffalo, N.Y.	
Murray, Margaret E	Arts 2	51 Belvedere Rd., Westmount, Que.	West. 0911
Murray, P. W	Theol. 3	336 Egan Avenue, Verdun, Que.	York 2110W
		Harvey Station, N.B.	
Murray, Ross T	Dent. 3	370 Elm Ave., Westmount, Que.	West. 6801
Murray, William MacG	Ap. Sci. 2	Apt. 36, The Linton, 1509 Sherbrooke St. W.	Up. 4845
		Georgeville, Que.	
Musgrave, Edward L	Com. 2	2047 Metcalfe St., Montreal	Lan. 9509
		1166 Goodwin St., Victoria, B.C.	
Myerson, Sarah F	Arts 1	365 De l'Epée Ave., Montreal	At. 5811
Myles, Margaret F	Grad. Nurses	Y.W.C.A. Annex, Montreal	Up. 8562
		52 Baker St., Aberdeen, Scotland	
Nairn, Alexander G	Law 3	3555 Shuter St., Montreal	Plat. 1978
Naismith, Mildred L	Com. 2	2076 Sherbrooke St. W., Apt. 3, Montreal	Wil. 9912
		195 Powell Ave., Ottawa, Ont.	
Nation, Frederick S	Ap. Sci. 4	3637 University St., Montreal	Marq. 1824
		Apt. R, 350 St. Clair Ave. W., Toronto	
Naylor, Lois A. E	Arts 4	1423 Bennett Ave., Montreal	Clar. 7913J
Neal, Edith Claire	Arts 2	374 Beaconsfield Ave., Montreal	Wal. 3235
Neamtan, Irving N	Phar. 1	4894 Hutchison St., Montreal	At. 7541W
Neamtan, Solomon	Com. 3	4894 Hutchison St., Montreal	At. 7541W
Neeland, William D	Arts 1	378 Catherine St., Fort William	
Negru, John Harvey	Arts 4	1527 Burnside Pl., Montreal	Up. 1808W
Nelles, J. G	Grad. Sch	1498 MacKay St., Montreal	Up. 0003
Nelles, Robert T	Arts 1	4042 Tupper St., Westmount, Que.	West. 7631
Nelson, Lewis H	Arts 1	3472 Park Ave., Montreal	Plat. 7650
		385, 8th Ave. E., Vancouver, B.C.	
Nelson, Robert J	Med. 3	545 Pine Ave., Montreal	Marq. 1545
		P.O. Box 462, Campbellton, N.B.	
Nesbitt, Arthur D	Ap. Sci. 1	41 Forden Ave., Westmount, Que.	West. 2162
Nesbitt, Dorothy E	Arts 2	254 Madison Ave., Montreal	Wal. 5136
Neville, H. Russell	Ap. Sci. 4	3417 Shuter St., Montreal	Marq. 7932
New, W. G	Theol	21E Gohier Ave., St. Laurent, Que.	
Newell, Howard W	Med. 3	3580 Durocher St., Montreal	Plat. 7422
		Dee Road, Lexington, Mass.	
Newell, Thomas A	Ap. Sci. 1	484 Wilson Ave., Montreal	Wal. 6637W
Newman, Laura L	Arts 3	5422, 5th Ave., Rosemount. Que.	Cher. 6657
Newnham, Alice E	Soc. Workers	1171 Dorchester St. W., Montreal	Marq. 5908
		St. Stephen, N.B.	
Newton, Reginald S	Arts 1	3581 University St., Montreal	Marq. 3842
		165 Portland Ave., Sherbrooke, Que.	
Nichol, Cecil J. S	Com. 2	1217 Mountain St., Montreal	Up. 0974
Nicholls, George V. V	Law 1	2174 Sherbrooke St. W., Montreal	Wil. 9237
Nicholls, John V. V	Med. 1	2174 Sherbrooke St. W., Montreal	Wil. 9237
Nicholls, Robert V. V	Arts 1	2174 Sherbrooke St. W., Montreal	Wil. 9237

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Nichols, Lawrence H	Grad. Sch	3437 Mountain St. University of Alberta, Edmonton, Alta.	Up. 2464
Nicholson, Gwendolyn M	Arts 1	23 Donegani Ave., Valois, Que.	Pt. Cl. 382J
Nickerson, Samuel H	Med. 2	4412 Henri Julien Ave., Montreal	Bel. 3711F
Nickson, J. Ellison	Com. 1	2028 Victoria St., Montreal	Plat. 6812
Nicolson, Walter W	Med. 1	3590 Jeane Mance St., Montreal 1201 Park Ave., Alameda, Calif.	Plat. 4672
Nieghorn, Alice G	Arts 4	4878 Westmount Ave., Westmount, Que.	West. 0544
Nixon, Dorothy J	Arts 1	647 Belmont Ave., Westmount, Que.	West. 4808
Nixon, John S	Arts 2	647 Belmont Ave., Westmount, Que.	West. 4808
Nobbs, Francis John	Arts 1	38 Belvedere Rd., Westmount, Que.	West. 4612
Nobbs, Phoebe E	Arts P	38 Belvedere Rd., Westmount, Que.	West. 4612
Nolan, Clinton W	Ap. Sci. 3	1211 Mountain St., Montreal 777 Potomac Ave., Buffalo, N.Y.	Up. 9655
Nolan, John F	Med. 3	1435 Drummond St., Montreal 505 Brooks St., Bridgeport, Conn.	Up. 1631
Normington, James B	Arts 3	39 Windsor Ave., Westmount, Que.	West. 6615
Norris, Fred E	Com. 1	3429 Peel St., Montreal 132 Douglas St., Victoria, B.C.	Up. 5947
Norris, John L	Med. 4	3564 University St., Montreal Needham, Mass.	Up. 7253
Norris, Kenneth E	Grad. Sch	1441 Drummond St., Montreal Perth, Ont.	Up. 6500
Norwood, Clarence R	Arts 1	15 Rennie Ave., Montreal West	Wal. 1316
Norwood, W. Daggett	Med. 1	3547 University St., Montreal 101 Forest Drive, Catonsville, Md.	Plat. 1352
Noseworthy, Nathan	Arts 4	677, 6th Ave., Verdun	York 1896W
Nowlan, Shirley M	Arts 1	1714 Queen Mary Rd., Montreal	El. 5104
Noyes, Harriette E	Arts 4	332 Grosvenor Ave., Westmount, Que.	West. 5300
Nutik, Harry L	Com. 2	4908 Sherbrooke St. W., Montreal	West. 6357
Nutik, Oscar	Med. 4	4908 Sherbrooke St. W., Montreal	West. 6357
Nutt, Philip K	Com. 1	83 Lorne Ave., St. Lambert, Que.	St. Lam. 237
Oatman, Homer Clifton, Jr	Med. 4	545 Pine Ave. W., Montreal 2437 Second St., San Diego, Calif.	Marq. 1545
O'Connell, Francis J	Ap. Sci. 4	2545 St. Charles St., Montreal	Wil. 6973
O'Connor, Maurice N	Med. 5	3484 Shuter St. Wellsville, N.Y.	Marq. 3472
O'Dowd, Cyril G	Ap. Sci. 1	327 De L'Epée Ave., Outremont, Que.	At. 2335
Ogilvie, Douglas R	Arts 3	20 St. Sulpice Rd., Westmount, Que.	West. 7354
Ogilvie, Ian	Arts 1	3529 Simpson St., Montreal	Up. 0655
Ogilvy, James Angus	Ap. Sci. 4	3489 Atwater Ave., Montreal 3429 Peel St., Montreal	West. 2267 Up. 5947
O'Halloran, Eleanor K	Arts 4	Royal Victoria College, Montreal 828 Brunswick St., Fredericton, N.B.	Plat. 0078
O'Hara, Gerald Patrick	Med. 1	3534 University St., Montreal 606 Diamond St., San Francisco, Calif.	Marq. 3448
Olesker, Carmen H	Arts 1	Wilhelmina Hotel, 1170 Mountain St., Montreal	Up. 3802W
Olesker, Norman H	Arts 1	1170 Mountain St., Montreal	Up. 3802W
Oleskevich, Veni	Ap. Sci. 2	3592 Jeanne Mance St., Montreal Chatham, N.B.	Plat. 6679
Oliver, Abraham	Dent. 2	3816 DeBullion St., Montreal	Plat. 3312
Oliver, Austen W	Dent. 3	1483 Closse St., Montreal 415, 10th St., Saskatoon, Sask.	Wil. 4442
Olmes, Frank S	Med. 2	539 Pine Ave. W., Montreal 1302, 6th Ave., Altoona, Pa.	Marq. 7818
Olmstead, Shirley H	Med. 4	1490 Drummond St., Montreal Lancaster, N.H.	Up. 6600
Olney, Mary R	Lib. Sch	195 President Ave., Prov. R.I.	Wil. 9008
O'Loughlin, Martin J	Arts 2	3702 St. Famille St., Montreal	Har. 2572
O'Meara, Ambrose J	Arts 4	Chateau Apts., Apt. E-71, Sherbrooke St. W., Montreal	Up. 8633
Onions, Wilfred R	Arch. 3	1176 Sherbrooke St. W., Montreal Somerset, Bermuda	Marq. 1447
Oppe, James S	Arts 1	3491 Peel St., Montreal	Up. 5959
Oppe, John Stephen	Arts 4	3491 Peel St., Montreal	Up. 5959
O'Reilly, Hewitt F. T	Com. 1	1176 Sherbrooke St. W., Montreal 20 Portland Ave., Sherbrooke, Que.	Up. 1674W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Organ, Sadie Loretto	Arts 3	Foyer de Marie Reparatrice, 1025 Mt. Royal W., Montreal 160 Military Rd., St. John's, Nfld.	At. 1750
Orlando, Mario Pasquale	Arts 3	3573 Park Ave., Montreal Bridgetown, N.S.	Plat. 1901
Orlando, Rose Gladys	Soc. Workers 1	3650 Park Ave., Montreal Bridgetown, N.S.	Plat. 4531
Ornstein, Joseph F	Com. 2	5615 Durocher Ave., Outremont, Que.	Cres. 2240
Ornstein, Louis	Com. 1	5477 St. Urbain St., Montreal	Cres. 6358
Osborne, Dorothy E	Arts 4	1474 Fort St., Montreal	Wil. 8449
Osborn, John R	Med. 5	3419 University St., Montreal Chester, N.Y.	Up. 1811
O'Shaughnessy, Michael J	Ap. Sci. 2	1551 St. Mark St., Apt. 18 Cobalt, Ont.	Up. 8939
Osler, Glyn F	Law 2	Brown, Montgomery & McMichael, 360 St. James St., Montreal 3 Thornwood Rd., Toronto.	Har. 4242
Ostry, Harry	Med. 5	772 Sherbrooke St. W., Montreal 120 Matheson Ave., Winnipeg, Man.	Lan. 1567
Oswald, Mary J	Arts 1	301 Wilson Ave., Montreal	Wal. 0093W
O'Toole, Geo. W K	Med. 5	3523 Lorne Ave., Montreal St. Peters, N.S.	Plat. 7361
Ouimet, J. Alphonse	Ap. Sci. 2	448 Outremont Ave., Outremont, Que.	At. 2330
Oulton, William F	Arts 2	232 Walnut Ave., St. Lambert, Que.	St. Lambert 886F
Owen, George R. W	Arts 1	422 Notre Dame de Grace Ave., Montreal	Wal. 2749
Owen, Henrietta M	Com. 1	Royal Victoria College, Montreal 2228 Collingwood Ave., Detroit, Mich.	Plat. 0078
Packer, Henry	Med. 2	660 Querbes Ave., Outremont, Que. 6102 Woodland Ave., Cleveland, O.	At. 4138W
Padber, Max N	Com. 3	3441 St. Dominique St., Montreal	Lan. 5739
Painter, Gilbert W	Ap. Sci. 1	1025 Burnside Pl., Montreal	Lan. 0705
Palmer, Russell A	Med. 4	3647 University St., Montreal 1054 Balfour Ave., Vancouver, B.C.	Marq. 2806
Palmer, Russell F	Ap. Sci. 1	63 Oak Ave., St. Lambert, Que.	St. Lam. 629
Panos, George S. M	Ap. Sci. 1	153 Milton St., Montreal	Har. 7460
Panter, Faivel	Ap. Sci. 1	4598 Clarke St., Montreal	Bel. 6959
Paquet, Arthur	Grad. Sch	3789 Drolet St., Montreal 126 De l'Eglise St., Quebec, Que.	Har. 9988
Parish, Charles E	Ap. Sci. 2	3434 McTavish St., Montreal 30 Cliff Ave., Hamilton, Ont.	Up. 8633
Park, Francis W	Arts 3	3609 University St., Montreal Newcastle, N.B.	Marq. 4300
Parker, Alice L	Arts 3	Royal Victoria College, Montreal Coaticook, Que.	Up. 4694
Parker, Ceylon M	Med. 1	3489 Shuter St., Montreal Malone, N.Y.	Plat. 5924
Parker, William S	Med. 3	320 Prince Arthur St. W., Montreal. 76 E. Housatonic St., Pittsfield, Mass.	Lan. 6809
Parkovnick, Samuel	Med. 1	93 Dante St., Montreal	
Parmley, James R	Med. 5	539 Pine Ave. W., Montreal Penticton, B.C.	Marq. 7818
Parr, Isaac	Arts 1	3778 City Hall Ave., Montreal	Lan. 4752
Parr, Sidney	Com. 1	3778 City Hall Ave., Montreal	Lan. 4752
Parry, Dora	Grad. Nurses P.	Children's Memorial Hosp., 75 Cedar Ave., Montreal 264 Quinn Blvd., Longueuil, Que.	Up. 9020
Parsons, Edward H	Arts P	3506 University St., Montreal	Marq. 2055
Parsons, Mary C	Phy. Ed. 2	3555 University St., Montreal Goderich, Ontario	Marq. 8420
Parthenais, Joseph T	Grad. Sch	69 Sherbrooke St. W., Montreal 30 Phillip St., Lowell, Mass.	Har. 6639
Parton, Eileen M	Arts 2	Royal Victoria College 238 Harvard Ave., Winnipeg, Man.	Plat. 0078
Pascal, Fred	Ap. Sci. 3	23 Laviolette St., Outremont, Que.	At. 0992
Pasquin, Andrew René	Arts 1	9765 LaSalle Rd., Lachine, Que.	Lach. 1139
Passino, Leon C	Med. 1	772 Sherbrooke St. W., Montreal 75 Constable St., Malone, N.Y.	Lan. 1567
Paterson, John Allan	Arts 2	18 Winchester Ave., Montreal	West. 3899

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Paterson, John Ross	Law 1	4311 Montrose Ave., Montreal	West. 9541
Patterson, John Hall	Arts 3	5593 Jeanne Mance St., Montreal	Cres. 0451
Patton, Huntley M	Arts 2	Presbyterian College, Montreal	Marq. 2720
		Truro, N.S.	
Patton, Inez G	Arts 4	Royal Victoria College, Montreal	Plat. 0078
		Ormstown, Que.	
Paul, Hugh Carl	Med. 4	640 Prince Arthur St. W., Montreal	Lan. 6809
		Island Falls, Me.	
Payton, Jas. A	Theol. 2	1207 Van Horne Ave., Montreal	
Payton, John R. T	Arts 2	25 Burton Ave., Westmount	West. 2474
Pearce, John Knight	Arts 4	396 Prud'homme Ave., Montreal	Wal. 4010
Pearce, Priscilla M	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Picton, Ont.	
Pearson, Gertrude E	Med. 2	1944 Tupper St., Apt. 2, Montreal	Wil. 9184
Peat, Frances J. B	Arts 2	1200 Sherbrooke St., Montreal	Marq. 2734
		77 Sewell St., St. Johns, N.B.	
Peck, Thomas V	Arts 2	539 Pine Ave. W., Montreal	Marq. 7818
		227 Kingswood Rd., Toronto, Ont.	
Peden, Gwen. W	Arts 4	161 Strathearn Ave., Montreal West.	Wal. 0379
Peden, Merle Grace	Com. 2	161 Strathearn Ave., Montreal West.	Wal. 0379
Peers, James H	Med. 4	3455 Hutchison St., Montreal	Plat. 1712
		Providence, R.I.	
Peers, Robert S	Med. 5	3639 St. Famille St., Apt. 14, Montreal	Marq. 1751
		Colfax-Placer Co., Calif.	
Peiker, Alfred L	Grad. Sch	1429 Stanley St., Apt. 16, Montreal	Marq. 5890
		156 High St. W., Orange, N.J.	
Pelletier, Wm. Charles	Com. 1	359 Oxford Ave., Montreal	Wal. 1355
Pelley, William G	Arts 1	3506 University St., Montreal	Marq. 2055
		220 Wentworth St. N., Hamilton, Ont.	
Perego, Harry A	Ap. Sci. 1	465 Old Orchard Ave., Montreal	Wal. 1901
Perelmuter, Martin M	Arts 4	232 Querbes Ave., Outremont, Que.	At. 5148
Perlson, Phyllis V	Arts 1	99 Cedar Ave., Pt. Claire	Pt. Clar. 187
Perrault, Morris McK	Arts 1	1442 Stanley St., Apt. 5, Montreal	Up. 4923
Persk, Joseph	Dent. 4	4330 Sherbrooke St. W., Apt. 11, Westmount, Que.	West. 9116
		69 Williams St., Whitehall, N.Y.	
Peters, Edward Smith	Med. 2	3432 Peel St., Montreal	Up. 1697
		177 Gower St., St. John's, Nfld.	
Peters, Jean W	Arts P	1462 Bishop St., Montreal	Up. 2722
Peterson, Isabel M	Arts 2	236 Saranac Ave., Montreal	Wal. 3190J
		303 Sask. Cres., Saskatoon, Sask.	
Peterson, Joseph J. A	Arts 1	1311 Beaubien St. E., Montreal	Cal. 8782M
Peterson, Miller A	Com. 1	115 Marlowe Ave., Montreal	Wal. 5713
Petrie, Allison E	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		2117 Hope St., Calgary, Alberta	
Petrie, J. Gordon	Med. 3	545 Pine Ave. W., Montreal	Marq. 1545
		Newcastle, N.B.	
Petry, William A	Med. 3	3592 University St., Montreal	Marq. 4479
		538 Washington St., Hudson, N.Y.	
Phelan, Lewis J	Grad. Sch	338 Kensington Ave., Westmount, Que.	West. 0715
Phelps, Frances H	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		195 Ashmont St., Poston, Mass.	
Phelps, Paul S	Med. 5	3657 St. Famille St., Montreal	Har. 7824
		Farmington, Conn.	
Philbrook, Anna L	Med. 2	3462 St. Famille St., Montreal	Har. 1719
		Meredith, N.H.	
Phillips, Edward R	Med. 3	429 Prince Arthur St. W., Montreal	Har. 0097
		2245 So. Josephine, Denver, Colo.	
Phillips, Florence R	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		75 Cleveland Lane, Princeton, N.J.	
Phillips, Frederick R	Ap. Sci. 2	26 Holton Ave., Montreal	West. 7474
Phillips, John D	Grad. Sch	772 Sherbrooke St. W., Montreal	Lan. 1567
Phillips, Robert W	Arts 1	Chambly Canton, Que	Cham. 78W
Picard, Robt. I. C	Arts 3	426 Grosvenor Ave., Westmount, Que.	West. 1770
Pickering, Gala C	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Greenwich, Mass.	
Pickleman, Gerald J	Med. 1	1490 Closse St., Montreal	Wil. 0761
Pimenoff, Clement J	Ap. Sci. 3	262 Old Orchard Ave., Montreal	Wal. 9565W
Pinhey, Kathleen G	Grad. Sch	Dept. of Zoology	Marq. 9181
		Ste. Anne de Bellevue, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Pinkerton, Edwin K.	Med. 3	3592 University St., Montreal Yorkton, Sask.	Marq. 4479
Piper, Richard L.	Ap. Sci. 3	3530 Durocher St., Montreal 227 Scarboro, Calgary, Alta.	Plat. 0316
Pitcairn, William A.	Dent. 4	3511 Lorne Ave., Montreal	Plat. 0568
Place, Harry A. L.	Arts 1	18 Highland Ave., Montreal	West. 3879
Place, Ronald E. G.	Arts 1	18 Highland Ave., Montreal	West. 3879
Playfair, Geoffrey A.	Com. 4	772 Sherbrooke St. W., Montreal Qualicum Beach, Vancouver Island, B.C.	Lan. 1567
Poland, George H.	Arts 3	139 Lazard Rd., Montreal	At. 4584W
Policoff, Abraham W.	Med. 3	3686 Henri Julien St., Montreal	Har. 4797
Pollack, Sam Louis	Arts 1	3417 Peel St., Montreal 346 Grande Allée, Quebec, Que.	Up. 1071
Pollard, S. L.	Grad. Sch.	3473 University St., Montreal 66 Highbury New Park, London N., Eng.	Marq. 4902
Pomerlian, Carl	Com. 1	4697 Jeanne Mance St., Montreal	Bel. 6989F
Poole, Gordon D.	Ap. Sci. 2	30 Ballantyne Ave. S., Montreal West Que.	Wal. 0044F
Pope, Howard J.	Ap. Sci. 1	3588 Jeanne Mance St., Montreal North Hatley, Que.	Plat. 6828
Popliger, Evelyn	Arts 1	3472 Shuter St., Montreal	Marq. 2717
Poppo, Martin J.	Med. 5	806 Versailles St., Montreal	Up. 4041
Porteous, George	Grad. Sch.	7083 De l'Epée St., Montreal	At. 3028M
Porteous, John F.	Arts P	304 Prince Arthur St. W., Montreal 6825 Boulevard LaSalle, Montreal	Marq. 2740 York 0486
Porter, Margaret J.	Lib. Sch.	308 Prince Arthur St., Montreal 649 Superior St., Victoria, B.C.	Marq. 7845
Porter, William H.	Arch. 2	3600 McTavish St., Montreal Box 158, Escondidi, Calif.	Up. 0115
Posner, Hertha F.	Med. 1	5366 Waverley St., Montreal	Cres. 3376
Potts, James E.	Ap. Sci. 1	Diocesan College, Montreal Stirling, Ont.	Plat. 0720
Powell, Edward C.	Grad. Sch.	3549 Jeanne Mance St., Montreal Oxbow, Sask.	
Power, Eliazbeth	Arts 1	1415 McGill College Ave., Montreal.	Lan. 5400
Power, John Joseph.	Ap. Sci. 3	418 Prince Arthur St. W., Montreal 23 Vernon St., Halifax, N.S.	Har. 9580
Powers, Maurice	Med. 1	3457 Shuter St., Montreal Rockland, Ont.	Marq. 7669
Poyas, Morton L.	Med. 5	4039 Tupper St., Westmount, Que. 172 Bay 34th St., Brooklyn, N.Y.	West. 9000
Pratt, John J. W.	Med. 1	5982 Hutchison St., Outremont, Que.	Cres. 3590
Pratt, Robert J.	Arch. 3	660 Dunlop Ave., Outremont, Que.	At. 2268
Prazoff, Isadore R.	Arts 2	6077 Hutchison St., Outremont, Que.	At. 3528
Prefontaine, Pierre	Ap. Sci. 1	359 Kensington Ave., Westmount, Que.	West. 9516
Prete, Louis A. A.	Ap. Sci. 2	480 Sherbrooke St. E., Montreal Box 1120, Sudbury, Ont.	Har. 7505
Price, Aubrey F.	Grad. School	1211 Mountain St., Montreal Bridgetown, N.S.	Up. 9555
Price, Harold B.	Ap. Sci.	3566 Lorne Ave., Montreal	Marq. 8812
Price, Ralph E.	Med. 1	3578 University St., Montreal 1355 Main St., Moncton, N.B.	Marq. 1074
Price, Ralph W.	Com. 2	1025 Sherbrooke St. W., Montreal Fort Frances, Ont.	Up. 4418
Price, Robert W.	Ap. Sci. 1	3521 Jeanne Mance St., Montreal 151 Sanford Ave. S., Hamilton, Ont.	Plat. 2537
Prince, William M.	Med. 3	University Settlement, 1162 St. George St., Montreal New Boston, N.H.	Lan. 9855
Prowse, Alice R.	Arts 4	Royal Victoria College, Montreal St. Johns, Nfld.	Plat. 0078
Pugsley, Leonard I.	Grad. Sch.	Macdonald College, Que. Five Islands, N.S.	
Pulrang, F. Stanford	Med. 5	3567 Shuter St., Montreal 209 Park Hill Ave., Yonkers, N.Y.	Plat. 0429
Pursley, Robert	Theol. 1	3506 University St., Montreal 5 Rugby Rd., Belfast, Ireland.	Marq. 2055
Quackenbush, Roderick S.	Med. 5	3473 University St., Montreal 36 Hampton Ave., Ottawa, Ont.	Marq. 4902

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Quigley, Dorothy L.	Arts 1	63 Clandeboye Ave., Westmount, Que.	West. 4372
Quigley, Robert W.	Ap. Sci. 1	1506 Mackay St., Montreal	Up. 7902
		2261 Retallack St., Regina, Sask.	
Quinn, Louis J.	Arts 2	1461 Mountain St., Apt. 8, Montreal	Up. 9340
Quinn, O. Charles	Ap. Sci. 3	3504 Park Ave., Apt. 5, Montreal	Marq. 6590
		Gomin Rd., Quebec City, Que.	
Quintin, Thomas J.	Med. 5	3473 University St., Montreal	Marq. 4902
		Harbour Grace, Nfld.	
Quirt, Marjorie M.	Arts 1	757 Outremont Ave., Outremont, Que.	At. 1780
Quong, Sidney D.	Ap. Sci. 1	772 Sherbrooke St. W., Montreal	Lan. 1567
		Rex Hotel, Coderre, Sask.	
Rabiner, Ida Rita	Arts 2	5965 Hutchison St., Montreal	At. 6739
Rabinovitch, Charlotte C.	Arts 2	484 Bloomfield Ave., Outremont, Que.	At. 6644
Rabinovitch, Hilda Joy	Arts 1	7 Cote Ste. Catherine Rd., Outremont, Que.	At. 3006
Rabinovitch, Jean	Arts P	6 Murray Ave., Westmount, Que.	West. 8778
Rabinovitch, Rose	Arts P	6 Murray Ave., Westmount, Que.	West. 8778
Racey, Allan J. W.	Arts 3	c/o Bank of Montreal, Church Ave., Verdun, Que.	Wil. 1363
		1185 St. Mark St., Montreal	
Radler, Ruth	Soc. Workers	5823 Jeanne Mance St., Montreal	Cres. 6313
Radovsky, Sydel P.	Music 1	531 Wilson Ave., Montreal.	
Rahmanop, Walter B.	Med. 4	2039 McGill College Ave., Montreal.	Plat. 3944
		156 Church St., Berlin, N.H.	
Ramsdale, Donald O. D.	Ap. Sci. 1	548 Oxford Ave., Montreal	Wal. 9231
Randazzo, Anton P.	Med. 3	2050 Victoria St., Montreal	Lan. 1798
		110 Park Place, Passaic, N.J.	
Rankin, James L.	Ap. Sci. 1	192 Logan St., St. Lambert, Que.	St.Lam509J
Rankin, John L.	Com. 1	5 Murray, Ave., Westmount, Que.	West. 8869
Ransom, Rosmore	Arts 1	57 Somerville Ave., Westmount, Que.	West. 2863
Raymond, Antonio	Ap. Sci. 1	540 Wiseman Ave., Outremont, Que.	At. 1667
Raymond, George H.	Arts 2	Presbyterian College, Montreal	Marq. 2720
		St. Paul's Rectory, Charlottetown, P.E.I.	
Read, Ellen L.	Arts 2	124 Brodeur St., Montreal	Wal. 3373W
Read, Frances E. M.	Med. 2	1445 Bishop St., Montreal	Up. 0542F
		Cascumpec, P.E.I.	
Redpath, Huntly R.	Arts 2	375 Prince Arthur St. W., Montreal.	Har. 1941
		Pincher Creek, Alberta	
Redpath, James B.	Ap. Sci. 3	3657 University St., Montreal	
		Pincher Creek, Alta.	
Reece, Alick A.	Med. 1	3430 Park Ave., Montreal	Plat. 6528
		48 Gordon St., Trinidad, B.W.I.	
Regenstreif, Arthur	Phar. 3	3847 Drolet St., Montreal	Har. 4396
Reid, Ewart P.	Arts 3	600 Victoria Ave., Westmount, Que.	West. 2060
Reid, Margaret Ida	Com. 1	600 Victoria Ave., Westmount, Que.	West. 2060
Reider, Reuben	Med. 3	3763 Arcade St., Montreal	Plat. 3643
Reilley, John A.	Ap. Sci. 1	120 Easton Ave., Montreal West. Que.	Wal. 0415M
Reinauer, Grace K.	Grad. Nurses P	Montreal General Hosp., Montreal.	Lan. 4101
		21 Renfrew Ave., Westmount, Que.	
Reinblatt, Ethel E.	Music 1	5245 Waverly St., Montreal.	
Remmer, John H.	Arch. 2	3506 University St., Montreal	Marq. 3205
		59 Wall St., Brockville, Ont.	
Remmer, Roy K.	Arts 1	3506 University St., Montreal	Marq. 2055
Renaud, Joseph F. G.	Ap. Sci. 1	21 Brillon Ave., Montreal	Wal. 3832
Rennie, Gordon H.	Ap. Sci. 4	3581 University St., Montreal	Marq. 3842
		Agincourt, Ont.	
Renton, Hollis A.	Med. 1	3578 University St., Montreal	Marq. 1074
		17 George St., Sydney, Cape Breton, N.S.	
Resnik, Edward	Med. 5	3419 University St., Montreal	Marq. 3089
		120 Dwight St., New Haven, Conn.	
Rettie, Margaret O.	Arts 4	8 Willow Ave., Westmount, Que.	West. 1999
Rexford, Orrin B.	Arts P	1440 Bernard Ave. W., Outremont, Que.	
Reynolds, Grace E.	Arts P	McGill University, Library Sch., Montreal	Marq. 9181
		12323 Notre Dame des Anges, Cartierville, Que.	Loc. 87

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Riache, Laverne	Grad. Nurses	Avalon Court, Regina Sask.	
Rice, John H. M	Med. 2	1162 St. George St., Montreal	Lan. 9855
		Marysville, N.B.	
Richan, Ruth I	Arts 1	114 Vivian Ave., Town of Mt. Royal, Que	At. 2574
Richardson, Hope	Arts 1	4370 Montrose Ave., Montreal	We t. 1358
Richardson, Jean D	Arts 1	140 Easton Ave., Montreal West, Que.	Wal. 6731
Richardson, Laurence R	Arts 3	18 Faircourt Apts., 205 Durocher St., Outremont, Que	Cres. 2835
		c/o Trustees Executors Co., Melbourne, Australia.	
Richardson, Seton L	Med. 3	475 Prince Arthur St. W., Montreal.	Marq. 3916
		O'Donnell, Ont.	
Riches, John Vernon	Med. 3	3449 Hutchison St., Montreal	Lan. 2833
		207, Ninth St., Saskatoon, Sask.	
Rilance, Arnold B	Med. 3	5391 Esplanade Ave., Montreal	Cres. 8260
		2173, 49th Ave. W., Vancouver, B.C.	
Rill, Cyril B	Com. 4	3418 Peel St., Montrel	Up. 1071
		39 Purcell Ave., Winnpeg, Man.	
Ritchie, Arthur S. C	Arts 3	3506 University St., Montreal, Que.	Marq. 7265
		Methodist Manse, Skibbereen, Ireland	
Ritchie, Henry L	Com. 4	3530 Durocher St., Montreal	Plat. 0316
		275, 1st Ave., Ottawa, Ont.	
Ritchie, Ida P	Phy. Ed. 2	234 Walkley Ave., Montreal	Wal. 1899
		101 Woodycrest Ave., Toronto 6, Ont.	
Ritchie, Kenneth S	Arts 2	5578 Pie IX Blvd., Montreal	Clar. 0678W
Rivenovich, Israel R	App. Sci. 1	446 Rigaud St., Monteal	Har. 4795
Rivett, Louis S	Arts 1	5 Argyle Ave., Montral	Up. 3491
		Box 3, Kenogami, Que	
Roberts, Geoffrey D	Ap. Sci. 1	3579 Hutchison St., Montreal	Plat. 1618
		P.O. Box 188, Magog, Que.	
Roberts. Mary E	Phy Ed. 2	3466 University St., Montreal	Marq. 2608
		161 George St., Belleville, Ont.	
Roberts, Percy H	Med. 4	551 Querbes Ave., Ouremont, Que.	At. 4947
Roberts, William G	Com. 2	1477 Sherbrooke St. W., Montreal.	Up. 7303
		43 Elgin St., Granby, Que.	
Robertson. Alexander M. H	Com. 1	29 Borden Ave., Westmount, Que.	West. 0322
Robertson, Angus G	Com. 4	400 Kensington Ave., Westmount, Que.	West. 0706
Robertson. Daniel M	Grad. Sch	1431 Drummond St., Montreal	Marq. 5093
		131 Finly St., Winnipg, Man.	
Robertson, Harold R	Arts 2	Strathcona Hall, Monreal	Lan. 1567
		640 Pender St., Vancouver, B.C.	
Robertson, Margaret J	Arts P	461 Roslyn Ave., Wesmount, Que.	West. 2145
Robertson, Thomas D	Arts 4	4144 Dorchester St. W., Westmount, Que.	West. 5919W
Robin, Percival A	Med. 3	1176 Sherbrooke St. W., Montreal.	Up. 1674W
		c o Professional Bldg. Hempstead, L.I., N.Y.	
Robinett, Jr., James B	Med. 3	545 Pine Ave. W., Montreal	Marq. 1515
		1505 Isabella Ave., Houston, Texas	
Robinson, Charles W	Arts P	110 Wolseley Ave., Montreal West.	Wal. 3376
Rochman, Abraham A	Phar. 1	5300 Hutchison St., Montreal	Cres. 7426
Rodger, Norman E	Ap. Sci. 4	2044 Metcalfe St., Montreal	Lan. 0471
		205 Victoria St. E., Amherst, N.S.	
Rodger, Rutherford D	Med. 5	772 Sherbrooke St. W. Montreal.	Lan. 1557
		Hammond, New YorkState	
Rogers, Alfred W	Arts P	Acadia Apts., Sherbrooke St., Montreal	Up. 2526
		357 Bay St., Toronto, Ont.	
Rogers, Dorothy B. I	Arts 1	Royal Victoria College Montreal.	Plat. 0078
		Woodside Grafton, Ont.	
Rogers, Elizabeth B	Grad. Nurses 1.	3560 Peel St., Montreal	Plat. 1251,
		Pontypool, Ont.	Local 153
Rogers, Ethel W	Soc. Work	3441 Jeanne Mance St, Montreal	
Rogers, Howard W	Ap. Sci. 3	1174 St. Mark St., Apt. 63, Montreal.	Wil. 3702
Rogers, Neil C	Med. 4	3534 Lorne Ave., Monreal	Marq. 5992
		Eliot, Me.	
Rolbin, Max	Ap. Sci. 1	3657 Henri Julien Ave, Montreal.	Har. 3019
Rolfe, Clayton J	Law 2	3583 Hutchison St., Montreal	Plat. 6785
		Huntingdon, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Rollit, John B	Arts 3	4427 St. Catherine St. W., Montreal	West. 7964
Rondeau, Ralph C	Arts P	407 Metcalfe Ave., Westmount, Que.	West. 1310
Rose, Arthur	Com. 1	274 St. Joseph Blvd. W., Montreal	Bel. 8558F
Rose, Bram	Med. 2	4470 Sherbrooke St. W., Westmount, Que.	West. 7443
Rose, Lottie	Arts 4	384 Edward Charles St., Montreal	At. 0802
Rosen, Charles	Arts 3	4664 Hutchison St., Montreal	At. 5809W
Rosenbaum, Beatrice R	Arts 2	490 Champagneur Ave., Outremont, Que.	At. 3042
Rosenberg, Harold	Arts 1	5030 Jeanne Mance St., Montreal	Bel. 1622F
Rosenberg, Solomon	Arts 1	3866 City Hall Ave., Montreal	Lan. 3946
Rosegarten, Wm	App. Sc. 2	397a Decarie Blvd., Montreal	Wal. 9955W
		12 Smilsu iela, Riga, Latvia.	
Rosenhek, Clarence	Law 2	4812 Clarke St., Montreal	Bel. 8721J
		Campbellton, N.B.	
Rosenthal, Robert W	Com. 2	Mount Royal Hotel, Montreal	Up. 6360
		296 Metcalfe St., Ottawa, Ont.	
Ross, Agnes B	Arts 4	751 Rockland Ave., Outremont, Que.	At. 3832
		10 McGill St., Hawkesbury, Ont.	
Ross, Arthur L	Ap. Sci. 2	3592 University St., Montreal	Marq. 4479
		Ship Canal, Sault Ste. Marie, Ont.	
Ross, Charles W	Arts 1	Strathcona Hall, Montreal	Lan. 1567
		404 Laurier Ave. E., Ottawa, Ont.	
Ross, Donald R	Ap. Sci. 3	112 Grey Ave., Montreal	Wal. 5274
Ross, Dorothy J	Arts 4	367 Metcalfe Ave., Westmount, Que.	Wal. 0678
Ross. Douglas Allen	Grad. Sch	367 Metcalfe Ave., Westmount, Que.	Wal. 0678
Ross, Henry S	Arch. 5	3516 Shuter St., Montreal	Marq. 8460
		345 Bronson Ave., Ottawa, Ont.	
Ross, H. Russell	Arts P	3506 University St., Union Col., Montreal,	Marq. 2055
		New Haven, Conn.	
Ross, Howard I	Arts 4	3434 McTavish St., Montreal	Up. 8085
		134 Cote des Neiges Rd., Montreal	
Ross, Oakland K	Arts 1	631 Milton St., Montreal	Plat. 0475
Ross, Thomas W	Ap. Sci. 1	Box 295, Hawkesbury, Ont	
Ross, William B	Arts 4	367 Metcalfe Ave., Westmount, Que.	West. 0678
Ross, William L. P	Ap. Sci. 1	1480 McGill College Ave., Montreal.	
		Hawkesbury, Ont.	
Rostenberg, Adolph, Jr	Med. 4	3504 Park Ave., Montreal	Plat. 4708
		152 E. 179 St., N.Y.C.	
Roston, Bram	Arts 2	215 Girouard Ave., Montreal	Wal. 6596
Roth, Harold Allan	Med. 5	318 Claremont Ave., Montreal	Wal. 5437W
Rother, Vincent J	Arts 1	1 Hudson Ave., Westmount, Que.	West. 5482
Rountree, G. Meredith	Arts 3	445 Mt. Stephen Ave., Westmount, Que.	West. 2883
Routtenberg, Constance	Arts 2	4908 Hutchison St., Montreal	At. 4176W
Routtenberg, Rae C	Arts 4	5437 Park Ave., Montreal	Cres. 6420
Rowan-Legge, C. Kingsley	Med. 3	3485 MacTavish St., Montreal	Marq. 2720
		398 Tower Rd., Halifax, N.S.	
Rowat, C. A. Ronald	Arts 4	572 Lansdowne Ave., Westmount, Que.	West. 4096
Rowat, Isabel R. McK	Arts 4	572 Lansdowne Ave., Westmount, Que.	West. 4096
Rowat, John P	Arts 2	572 Lansdowne Ave., Westmount, Que.	West. 4096
Rowland, Esther A	Arts 4	3515 Shuter St., Montreal	Plat. 4421
Rowley, Anne	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Lake Edward, Que.	
Roy, Theodore E	Med. 4	257 Dorchester St. W., Montreal	Lan. 9855
		Grand Ligne, Que.	
Rubin, Edward B	Arts 1	453 Strathcona Ave., Westmount, Que.	West. 5621
Rubin, Edythe F	Phy. Ed. 2	4118 Western Ave., Westmount, Que.	West. 7951
Rubin, Jack	Arts 3	1074 City Hall Ave., Montreal	Lan. 5615
Rubin, Jacob Simon	Med. 5	2071 Peel St., Montreal	Lan. 9359
		151-01, 85th Drive, Jamaica, N.Y.	
Rubin, Lionel L	Arts 4	4118 Western Ave., Montreal	West. 7951
Rubinstein, Florence	Soc. Workers	235 St. Joseph Blvd. W., Montreal	Bel. 7314W
Rubinstein, Joseph E	Med. 5	235 St. Joseph Blvd. W., Montreal	Bel. 7314W
Rudkin, Stanley T	Arts 1	772 Sherbrooke St. W., Montreal	Lan. 1567
		Box 76, Sandoa, B.C.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Rudoff, Hyman	Arts 1	3454 Colonial Ave., Montreal	
Ruff, Olive L	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		46 Union Ave., Amityville, N.Y.	
Russel, Colin M.	Arts 3.	641 Argyle Ave., Westmount, Que.	West. 5440
Russell, Nelson G	Med. 1	538 Prince Arthur St., Montreal	Plat. 3624
		467 Linnwood Ave., Buffalo, N.Y.	
Rutherford, Jennie Lulu	Phy. Ed. 2	3466 University St., Montreal	Marq. 2608
		Revelstoke, B.C.	
Ryan, Alice K	Arts 1	15 Sunnyside Ave., Westmount, Que.	West. 4257
Ryan, Jerome J	Med. 2	315 Pine Ave., Montreal	Up. 9173
		535 Cranston St., Providence, R.I.	
Ryan, Leo E	Ap. Sci. 3	15 Sunnyside Ave., Westmount, Que.	West. 4257
Sabourin, Roland P	Law 3	21 Sherbrooke St. E., Montreal	Har. 5573
		St. Johns, Que.	
Saffran, Louis	Phar. 3.	5277 Clarke St., Montreal	Cres. 2635
Saibil, Maurice	Med. 4	5984 St. Urbain St., Montreal	Cres. 7344
Saint Denis, Rolland	Ap. Sci. 1	6640 Christophe Colomb St., Montreal	Cal. 6307
Saint Germain, Emile	Com. 4	3501 Jeanne Mance St., Montreal	Plat. 3719
St. Germain, Ralph	Com. 4	3647 University St., Montreal	Plat 5070
		122 Cartier St., Ottawa, Ont.	
Saller, M. Gertrude	Lib. Sch.	3721 Jeanne Mance St., Montreal	Lan. 2714
		Kendallville, Ind.	
Salomon, Anna	Arts 2	505 Grosvenor Ave., Westmount, Que.	West. 3978
Salter, Zenda	Phy. Ed. 2	3466 University St., Montreal	Marq. 2608
		Clinton, Ont.	
Sampson, David A	Med. 4	3439 St. Famille St., Montreal	Plat. 5544
		1820 College Ave., Regina, Sask.	
Sampson, Walter P	Arts 3	772 Sherbrooke St. W., Montreal	Lan. 1567
		70 Stone St., Gananoque, Ont.	
Sancton, Alice W	Com. 1	4643 Sherbrooke St. W., Westmount, Que.	West. 5749
Sancton, Edward H	Ap. Sci. 1	4643 Sherbrooke St. W., Westmount, Que.	West. 5749
Sancton, Richard A	Ap. Sci. 1	4643 Sherbrooke St. W., Westmount, Que.	West. 5749
Sanders, Margaret E	Arts 1	610 Argyle Ave., Westmount, Que.	West. 4474
Sanderson, Joseph L	Med. 1	539 Pine Ave. W., Montreal	Marq. 7818
		1540 Boston Blvd. W., Detroit, Mich.	
Sangster, Eric N	Arts 1	538 Prince Arthur W., Montreal	Marq. 2740
		70 King St., Windsor, N.S.	
Sankey, Charles A	Grad. Sch.	2037 Metcalfe St., Apt. 5, Montreal	Lan. 7751
		Sidney Cottage, Bellevill, Ont.	
Santmyer, Philip H	Arts P.	1015 Sherbrooke St., Montreal	
		Xenia, Ohio.	
Saunders, John S	Ap. Sci. 2	215 Brock Ave. N., Montreal West	Wal. 6938J
Saunders, Roderick C	Com. 2	624 Dunlop Ave., Outremont, Que.	At. 1016
Saunders, Roy A	Com. 1	375 Berube St., Montreal	At. 5786
Savage, Mae L	Grad. Sch.	154 Ballantyne Ave. N., Montreal West, Que.	Wal. 2301
Savage, Palmer E	Ap. Sci. 3	154 Ballantyne Ave. N., Montreal West, Que.	Wal. 2301
Sawyer, William R	Grad. Sch.	554 Prince Arthur St. W., Apt. 8, Montreal	
		183 University Ave., Kingston, Ont.	
Saylor, Lester A	Ap. Sci. 1	Caughnawaga, Box 103	
Scarlett, John T	Com. 2	3434 McTavish St., Montreal	Up. 8633
		94 Bay St. S., Hamilton, Ont.	
Schacher, Helen	Arts 4	159 Sherbrooke St. E., Montreal	Lan. 7585
Schacher, Josephine	Arts 2	159 Sherbrooke St. E., Montreal	Lan. 7585
Schacter, Samuel N	Law 1	237 Mt. Royal Ave. W., Montreal	Bel. 3762
Schaffner, Vernon D	Med. 5	539 Pine Ave. W., Montreal	Marq. 7818
		Lawrencetown, N.S.	
Schecter, Nathan	Arts 2	5671 Esplanade Ave., Montreal	
		280 St. Andrew St., Ottawa, Ont.	
Schiller, Daisy S. E	Arts 2	5453 Esplanade Ave., Montreal	Cres. 9410
		Loretteville, Que.	
Schlesinger, John M	Arts 3	4125 Esplanade Ave., Montreal	Bel. 5645
Schloen, John H	Ap. Sci. 3	3592 University St., Montreal	Marq. 4479
		North Glenside, Pa.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Schmit, Richard H	Med. 4	2007 Mansfield St., Montreal 410 W. 29th St., Erie, Pa.	Lan. 4513
Schnebly, Clarence D	Arts 1	124 Brock Ave. N., Montreal West, Que.	Wal. 1067
Schnebly, Frances E	Arts 3	124 Brock Ave. N., Montreal West, Que.	Wal. 1067
Schnee, Frederick Charles	Med. 2	539 Pine Ave. W., Montreal 5236, 70th St., Maspeth, L.I., N.Y.	Marq. 7818
Schofield, Robert J. G	Arts 1	340 Ballantyne Ave. N., Montreal West Que.	Wal. 1673
Schofield, William	Ap. Sci. 1	7881 Henri Julien St., Montreal	Cal. 5385
Schroeder, Frank W	Med. 5	3565 Mance St., Apt. 7, Montreal	Lan. 5938
Schubert, Laura	Arts 2	Jansen, Sask.	
Schurman, Nona	Arts P	206 Pine Ave. E. Montreal 759 Lansdowne Ave., Westmount, Que.	Plat. 1040 West. 8228
Schwartz, Arthur G	Arts 4	756B Querbes Ave. Outremont, Que.	At. 2505
Schwartz, Max A	Law 2	5010 Sherbrooke St. W., Apt. 16, Montreal	West. 4426
Schwartz, Sophie	Arts 3	4445 Esplanade Ave., Montreal	Bel. 0528
Schwarzbard, Samuel	Arts 1	1349 Lajoie Ave. Outremont, Que.	At. 0980
Schwisberg, Cyril E	Law 2	4405 Esplanade Ave., Montreal	Bel. 2616
Scott, David G	Com. 2	14 Papineau Terrace, Montreal	Wal. 6265
Scott, Philip H	Arts 1	6 Redpath Place Montreal	Up. 8714
Scott-Moncrieff, R	Med. 4	3433 Peel St., Montreal 1535 RichardsonSt., Victoria, B.C.	Up. 2143
Sears, Teresa C	Lib. Sch.	1205 Crescent St., Montreal Antigonish, N.S	Up. 3839J
Seaton, William B	Com. 4	546 Milton St., Montreal	Marq. 9584
Secker, H. C	Theol. 2	3473 University St., Montreal Brownsburg, Que.	Marq. 4902
Seely, E. Trueman H	Arts 3	539 Pine Ave. W., Montreal 5 Dufferin Row, West St. John, N.B.	Marq. 7818
Segal, Sam	Ap. Sci. 1	546 Old Orchard, Montreal	Wal. 9246
Sellar, William	Arts 2	5429 Peel St., Montreal 286 Hampton Ave., Montreal.	Wal. 2577
Seltzer, Joseph	Arts 3	4835 Esplanade Ave., Montreal	Bel. 3028J
Senecal, Alphonse L	Med. 2	640 Prince Arthur St. W., Montreal Plattsburg, N.Y.	Lan. 6809
Senkeivitz, Lucy J	Arts P	5952 Sixth Ave., Rosemount, Montreal	Clair. 6012W
Seward, Violet E	Arts 2	101 Wolseley Ave., Montreal West, Que.	Wal. 1323
Seybold, Hugh G	Ap. Sci. 1	331 Lansdowne Ave., Westmount, Que.	West. 8896
Seybold, John E	Com. 3	331 Lansdowne Ave., Westmount, Que.	West. 8896
Seymour, Stanley L	Arts 3	1018 Sherbrooke St. W., Montreal 271 George St., Belleville, Ont.	Lan. 5778
Shackell, Aubrey C	Com. 3	3446 Hutchison St., Montreal	Marq. 1768
Shaffer, Harold	Com. 2	3505 Lorne Ave., Montreal 19 Marlborough, Ottawa, Ont.	Marq. 2849
Shallcross, John R. F	Com. 2	3429 Peel St., Montreal Capenhurst, Staughnessy Hts., Vancouver, B.C.	Up. 5947
Shapiro, Clarence H	Ap. Sci. 2	3605 St. Urbain St., Montreal Yarmouth, N.S.	Har. 3317
Shapiro, Evelyn	Arts 4	353 Addington Ave., Montreal	Wal. 4463
Shapiro, Gerald J	Arts 2	353 Addington Ave., Montreal	Wal. 4463
Shapiro, Goldye Rhoda	Arts 4	293 Prud'homme Ave., Montreal	Wal. 7222
Shapiro, Jacob H	Arts 1	5303 Esplanade Ave., Montreal	Cres. 0063
Shapiro, Lion I	Grad. Sch	5. 50 Park Ave., Montreal	Cres. 8802
Shapiro, Louis A	Med. 3	6415 Papineau Ave., Montreal	Cal. 7021W
Shapiro, Simon B	Med. 1	5415 Jeanne Mance St., Montreal	Cres. 7226
Sharkey, Sidney J	Arts 1	2090 Peel St., Montreal	Lan. 9885
Sharkey, N. F	Theol. 2	2 90 Peel St., Montreal	Lan. 9885
Sharp, George A	Com. 2	341 Cote St. Antoine Rd., Westmount, Que.	West. 2973
Sharp, Lewis Inman	Arts 3	538 Prince Arthur St. W., Montreal Manhasset, LI., N.Y.	Marq. 2740

NAME	FACULTY AND YEAR	ADDRESS	TEL NO.

Where two adreses are given, the second is the home address.

Sharpe, Helen M	Grad. Nurses	Royal Victoria Hospital, Montreal Woodstock, N.B.	Plat. 1251
Shaw, Cecil Hope	Med. 1	3538 Shuter St., Montreal 209 King St. E., Sherbrooke, Que.	
Shaw, Dorothy D	Arts 1	493 Sherbrooke St. W., Montreal U.S. Naval Ammunition Depot, Hingham, Mass.	Marq. 1439
Shaw, Fred. W. Brown	Arts 1	167 Birch Ave., St. Lambert, Que.	St. Lam. 186
Shaw, Geoffrey T	Arts 4	St. Anne de Bellevue, Que.	St. Anne 277
Shaw, Hampden C	Arts 2	4004 St. Catherine St. W., Westmount, Que.	West. 0249
Shaw, Robert F	Ap. Sci. 1	3454 Peel St., Montreal c/o Bank of Montreal, Revelstoke, B.C.	Up. 6788
Shearer, James B	Arts 1	636 Roslyn Ave., Westmount	West. 2765
Shearwood, Alexander P	Ap. Sci. 3	120 Aberdeen Ave., Westmount, Que.	West. 2777
Shecter, Arthur	Arts 2	96 St. Louis St., Lachine, Que.	Lach. 286j
Sheltus, Kenneth A.	Com. 4	3506 University St., Montreal	Marq. 2055
Shepherd, Grosvenor H	Med. 1	3429 Shuter St., Montreal 561 Belle Isle View Blvd., Riverside, Ont.	Marq. 7406
Sherman, David	Med. 4	3417 Peel St., Montreal 636 Victoria Road, Sydney, N.S.	Up. 1071
Shimokura, Tadaichi	Arch. 1	3522 Mountain, St. Montreal	
Shister, Hynam	Med. 3	5497 St. Urbain, St., Montreal	Cres. 9422
Shlackman, Vera	Arts. 4	417 St. Joseph Blvd. W., Montreal	At. 7709
Short, Constance L. G.	Arts 1	729 Belmont Ave., Westmount, Que.	West. 0755
Short, Mary G. G.	Arts 3	729 Belmont Ave., Westmount, Que.	West. 0755
Shortall, John D	Ap. Sci. 1	704 Cote St. Antoine Road., Westmount, Que.	West. 3710
Shulman, Abraham	Med. 4	5336 Clarke St., Montreal	Cres. 4795
Shuster, Samuel	Arts 3	3699 St. Lawrence Blvd., Montreal	Plat. 0626
Shute, Arthur W.	Ap. Sci. 1	1610 Sherbrooke St. W., Apt. 4, Montreal	Up. 5873
Sichel, Manley R.	Arts 4	5990 Durocher Ave., Apt. 9, Outremont, Que.	At. 7086W
Silverman, Archie	Law 1	4871 St. Lawrence Blvd., Montreal	Bel. 9805M
Siminovitch, Jack	Arts 3	5115 Esplanade Ave., Montreal	Cres. 7053
Simpson, Eleanor A.	Arts. 1	Royal Victoria College, Montreal 93 Park Ave., Quebec City, Que.	Plat. 0078
Simpson, Geo. A	Med. 5	690 Sherbrooke St. W., Montreal 105 Victoria St. N., Sarnia, Ont.	Lan. 7142
Simpson, Roger G	Med. 1	545 Pine Ave., Montreal 201 Tunnel Rd., Berkerey, Cal.	Marq. 1545
Simpson, Virginia D.	Arts 4	375 Beaconsfield Ave., Montreal	Wal. 0682
Sinclair, Tennyson Byron	Med. 3	3430 Park Ave., Apt. 2, Montreal 70A King St., Kingston, Ja., B.W.I.	Plat. 6528
Sise, Philip F	Arts 3	17 Redpath Crescent, Montreal	Up. 3714
Skazin, Leo	Grad. Sch	Macdonald College, Que.	
Skelly, Patrick J. A.	Ap. Sci. 3	50 Courso lSt., Montreal	Wil. 0673
Skelton, Cecil H.	Ap. Sci. 4	379 Roslyn Ave., Westmount, Que.	West. 2659
Skelton, Winifred M.	Arts 1	218 Percival Ave., Montreal West, Que.	Wal. 2419F
Skinner, Norman S.	Med. 2	3516 Shuter St., Montreal 19 Coburg St., St. John, N.B.	Plat. 7472
Slanker, William G.	Arts. 1	418 Claremont Ave., Apt. 20, Westmount, Que.	West. 8220
Slapack, Max	Law 1	6020 Esplanade Ave., Montreal	Cres. 2917
Slatkoff, William R	Med. 1	5331 Park Ave., Montreal	Cres. 8429
Slessor, Ida L.	Arts. 1	628 Murray Hill, Westmount, Que.	West. 1690
Slotin, Gabriel	Ap. Sci. 1	5158 Jeanne Mance St., Montreal	Cres. 4444
Smaill, Donald W.	Arts 3	3567 Hutchison St., Montreal 167 Holmwood Ave., Ottawa, Ont.	Plat. 0363
Smardon, Florence E.	Grad. Nurses 1	687 Grosvenor Ave., Westmount, Que.	West. 8075
Smart, Helen L.	Arts 1	Apt. 2, 493 Sherbrooke St. W., Montreal	Marq. 1439
Smart, Janet S.	Arts 3	70 Cedar Ave., Montreal	Up. 4468
Smart, Leon A.	Arts 1	52 Bonaventure St., Montreal 18 Brantford Rd., Cross Rds., P.O. Jamaica, B.W.I.	Up. 4230W

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Smellie, W. Henry	Com. 2	3485 McTavish St., Montreal	Marq. 2720
Smiley, Ross E.	Arts 1	5905 Jeanne Mance St., Montreal	Cres. 8846
Smit, John S.	Med. 3	3569 Lorne Ave., Montreal	Marq. 9523
Smith, Beatrice A.	Arts 4	5311 Park Ave., Montreal	Cres. 1427
		Upper Bedford, Que.	
Smith, Charles B.	Arts 1	17 Northview Court, 390 Cote des Neiges, Westmount, Que.	West. 0308
		89 Addison Rd., London, Eng.	
Smith, Eunice R. D.	Arts 2	9 Laurendeau, Montreal East	Pt. aux Tre. 199
Smith, Frederick McI.	Med. 5	55 Clandeboye Ave., Westmount, Que.	West. 4396
Smith, Gladys L. H.	Soc. Workers 2	1202 Bishop St., Montreal	Up. 6140
		10576, 105th St., Edmonton, Alta.	
Smith, Gordon C.	Ap. Sci. 4	3434 McTavish St., Montreal	Up. 8633
		79 Grande Allée, Quebec, Que.	
Smith, Howard McK.	Com. 1	32 Belvedere Rd., Westmount, Que.	West. 0403
Smith, Jack C.	Arts 1	246 Grey Ave., Montreal	Wal. 3168
Smith, John R.	Arts 1	5233 Waverley St., Montreal	Cres. 4909
Smith, Katharine E.	Arts. 1	439 Sherbrooke St. W., Montreal	Marq. 1439
		47 Elgin St., Granby, Que.	
Smith, Marella	Com. 1	Royal Victoria College, Montreal	Plat. 0078
		Webbwood, Ont.	
Smith, Margaret S.	Arts 4	230 Wood Ave., Westmount, Que.	West. 7975
Smith, R. Douglas	Theol. 1	240 Clifton Ave., Montreal	Wal. 1850W
Smith, Ralph L.	Med. 2	751A Querbes Ave, Outremont, Que.	At. 3469
Smith, Robert E.	Med. 2	3514 Lorne Ave., Montreal	Marq. 6743
		Franklin, N.H.	
Smith, Robert G. C.	Com. 1	1226 St. Mark St., Montreal	Wil. 7574
		79 Grande Allée, Quebec, Que.	
Smith, Robert S.	Theol. P. G.	9 Laurendeau St., Montreal East	
Smith, Ronald H.	Arts 2	501 Oxford Ave., Montreal	Wal. 3198M
Smith, Stanley T. B.	Com. 1	9841 Notre Dame St., Montreal East.	Clair. 2986
Smyth, John N.	Arts 2	3508 University St., Montreal	Up. 4092
Smyth, Margaret L.	Soc. Workers 2	586 Oxford Ave., Montreal	Wal. 3920J
Snowdon, Cecil V.	Arts 2	337 Grosvenor Ave., Westmount, Que.	West. 1929
Snyder, John K.	Arts 4	3429 Shuter St., Montreal	Marq. 7406
		64 Cardinal Ave., St. Laurent, Que.	By. 0588
Socolow, Lewis	Med. 4	4865 St. Urbain St., Montreal	Bel. 1392W
Sohmer, Maurice	Com. 3	5935 Hutchison St., Montreal	Cres. 7191
Solomon, Saul	Med. 5	1529 Van Horne Ave., Outremont, Que.	At. 7113
Somerville, Henry A. D.	Arts 1	3466 Shuter St., Montreal	Lan. 3944
		Hemmingford, Que.	
Southam, Mary	Phy. Ed. 1	3466 University St., Montreal	Marq. 2608
		15 Inglewood Drive, Hamilton, Ont.	
Southam, William W.	Ap. Sci. 4	3434 McTavish St., Montreal	Up. 8633
		15 Inglewood Dr., Hamilton, Ont.	
Sowerby, Ada (Mrs.)	Soc. Workers	221 Mt. Vernon Ave., Montreal	Wil. 1151
Sparkes, Jack	Dent. 2	3468 Park Ave., Montreal	Plat. 5416
		Golf Ave., St. Johns, Nfld.	
Spector, Leo Lyon	Med. 4	5429 Durocher Ave., Montreal	Cres. 0797
Spence, Kenneth W.	Grad. Sch	348 Hingston Ave., Montreal	Wal. 1482
Spencer, William A.	Com. 1	Strathcona Hall, Montreal	Lan. 1567
		2280 Marine Dr., Vancouver, B.C.	
Spooner, Raymond H.	Med. 3	3547 University St., Montreal	Plat. 1352
		Brimfield, Mass.	
Sprague, J. Hibbard	Med. 1	Strathcona Hall, Montreal	Lan. 1567
		38 Merchant St., Barre, Vt.	
Sprenger, William P.	Arts 3	456 Beaconsfield Ave., Montreal	Wal. 6958
Sprigings, Gordon McG.	Ap. Sci. 3	43 Nelson Ave., Outremont, Que.	At. 0315
Spring, John D.	Med. 5	772 Sherbrooke St. W., Montreal	Lan. 1567
		6 Webster St., Nashua, N.H.	
Sprinkle, Ellington J.	Arch. 1	3534 University St., Montreal	Up. 7253
		Ashville, N.C.	
Spurrell, Stephen	Theol. 1	3506 University St., Montreal	Marq. 2055
		Dunfield, Trinity Bay, Nfld.	
Stadler, John Charles	Ap. Sci. 4	4334 Westmount Ave., Westmount, Que.	West. 5947
Stallman, Annie D.	Arts 1	3476 DeBullion St., Montreal	Lan. 2587

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Stanfield, Kathryn	Arts 3	Royal Victoria College, Montreal	Marq. 2610
		Truro, N.S.	
Stanley, Kathlyn R	Arts 1	392 Harvard Ave., Montreal	Wal. 2234
Stanway, Alfred W	Com. 1	14 Arlington Ave., Westmount, Que.	West. 3036
Stan field, Ellen E. G	Grad. Sch	82 Westmount Blvd . Westmount, Que.	West. 7771
Stares, Douglas M	Com. 1	1176 Sherbrooke St. W., Montreal	Marq. 1447
		187 Main St. W., Hamilton, Ont.	
Starkey, Duncan Hugh	Med. 4	3591 University St., Montreal	Plat. 3630
Stattner, Philip	Med. 4	5139 St. Urbain St., Apt. 2, Montreal.	Cres. 8806
Stavrakis, George W	Grad. Sch	3513 Park Ave. Montreal	Plat. 2354
Stein, Sam R	Arts 1	5506 Hutchison St., Montreal	Cres. 3670
Steinberg, Estelle H	Arts 1	211 St. Joseph Blvd. W., Montreal	Bel. 0926J
Steinberg, Nettye	Arts P	313 Marlowe Ave., Montreal	Wal. 7385
Stevens, Raymond E	Med 2	3605 St. Famille St., Montreal	Har. 3730
		113 Wilson Ave., Rumford, R.I.	
Stevenson, Robert Lea	Com. 1	Strathcona Hall, Montreal	Lan. 1567
		158 Talbot St., Simcoe, Ont.	
Stewart, Charlotte R	Phy. Ed. 1	3465 University St., Montreal	Marq. 2608
		626 Vancouver St., Victoria, B.C.	
Stewart, Colin E. C	Arts 2	631 Roslyn Ave., Westmount, Que.	West. 4092
Stewart, Flora M	Arts 4	148 Cote St. Antoine Rd., Westmount, Que.	West. 5693
Stewart, Hugh M	Grad. Sch	4634 Marquette St., Montreal	Amh. 5806
Stewart, Marie Isabella	Arts 1	Apt. 21, 4160 Sherbrooke St., Westmount, Que.	West. 3288
Stewart, Robert de Grey	Com. 4	464 Wood Ave., Westmount, Que.	West. 0901
Stewart, Rose de L	Grad. Sch	4853 Western Ave., Westmount, Que.	West. 8752
Stewart, Russell A	Arts 1	2020 Victoria St., Montreal	Lan. 7380
		700 Echo Drive, Ottawa, Ont.	
Stewart, William Allan	Med. 2	3506 University St., Montreal	Marq. 2055
		Kinburn, Ont.	
Stiles, Esmond	Med. 1	3671 Jeanne Mance St., Montreal	Har. 8536
		Moncton, N.B., R.R. No. 2.	
Stockton, Jean A	Phy. Ed. 1	150 Wiseley Ave., Montreal West, Que.	Wal. 8155
Stockton, Margaret I	Arts 3	3454 University St., Montreal	Marq. 2610
		1027 Prospect Ave., Calgary, Alta.	
Stote, P. Raymond	Arts P	3473 University St., Montreal	Marq. 4902
		Stanbridge East, Que.	
Strachan, Mary E	Arts 1	641 Belmont Ave., Westmount, Que.	West. 2179
Strathy, Marguerite F	Arts P	3484 Shuter St., Montreal	Lan. 7723
Strauss, Rubin	Med. 1	3924 Drolet St., Montreal	Plat. 1893
Streit, Marjorie S	Arts 3	1435 St. Clement Ave., Montreal	Clar. 2219J
Strickland, Harold	Med. 5	772 Sherbrooke St. W., Montreal	Lan. 1567
		132 Osgood St., Lawrence, Mass.	
Stuart, Edwin A	Med. 2	3514 Lorne Ave., Montreal	Marq. 6743
		Fredericton Jct., N.B.	
Stuart, Jr., E. Christopher	Med. 1	545 Pine Ave W., Montreal	Marq. 1545
		Hawthorne, Winchester, Va.	
Stuart, Francis L	Arts 3	4355 Westmount Ave., Westmount, Que.	West. 8098
Stuart, Mary B	Arts P	1512 Guy St., Montreal	Up. 5453
Sturdee, Charles P	Arts 1	61 Notre Dame de Grace Ave., Westmount, Que	West. 7197
Sturman, Pasco	Phar. 1	4080 City Hall Ave., Montreal	Bel. 3773M
Sturrock, M. G	Grad. Sch	1205 Crescent St., Montreal	Up. 0126
		219 St. Claire Ave. W., Toronto, Ont.	
Suffrin, Harry	Arts 1	5629 St. Urbain St., Montreal	Cres. 0075
Sullivan, Arthur E	Arts 1	Melocheville, Que.	
Sullivan, Charles Noyes	Med. 5	50 Marlowe Ave., Montreal	Wal. 5620
		50 William St., Worcester, Mass.	
Sullivan, D. May	Soc. Workers 1	Apt. 51, 1554 Stanley St., Montreal	Fal. 1288
		78 Yorke St., Sydney, N.S.	
Sullivan, Francis R	Dent. 2	3630 Durocher St., Montreal	Marq. 4363
		120 Walnut St., Dedham, Mass.	
Sullivan, Norah E. N. C	Grad. Sch	1374 Sherbrooke St. W., Montreal	Up. 6593
Sullivan, Raymond F	Med. 2	1175 Bishop St., Montreal	Up. 1149
		285 Suffolk St., Holyoke, Mass.	
Sumner, George	Ap. Sci. 1	648 Grosvenor Ave., Westmount, Que.	West. 2405

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Sutherland, Amy E.	Arts 2	28 Arlington Ave., Westmount, Que.	West. 2693
Sutherland, H. S.	Grad. Sch	C. & M. Building, McGill University, Montreal	Marq. 5890
		29 Rupert St., Amherst, N.S.	
Sutherland, Roderick W.	Arts 2	2054 Sehrbrooke St. W., Apt. 3, Montreal	Wil. 8621
Sutton, Gerald L.	Arts 3	10434 Delormier Ave., Montreal	Du. 3226
Sutton, Gordon A.	Ap. Sci. 4	815 Pratt Ave., Outremont, Que.	At. 3897
Swabey, Alan	Com. 4	248 Old Orchard Ave., Montreal	West.4377M
Swartzbard, Anne	Arts 1	1349 Lajoie Ave., Outremont, Que.	At. 0980
Swett, Clyde I.	Med. 5	1242 Crescent St., Apt. 16, Montreal.	Up. 6996
		Bangor, Me.	
Taft, Albert H.	Med. 3	3490 Shuter St., Montreal	Marq. 1734
		Winchester, N.H.	
Taggart, Jean E.	Lib. Sch.	3721 Jeanne Mance St., Montreal	Lan. 2714
		446 So. W. Ave., Freeport, Ill.	
Taggart, Mary M.	Arts 2	1200 Sherbrooke St., Montreal	Har. 8571
		211 Clemow Ave., Ottawa, Ont.	
Tait, Alexander H.	Ap. Sci. 1	632 Grosvenor Ave., Westmount, Que.	West. 4321
Tait, Gordon E.	Ap. Sci. 4	632 Grosvenor Ave., Westmount, Que.	West. 4321
Tait, Helga	Arts 3	467 Lansdowne Ave., Westmount, Que.	West.1888W
Talbot, Allan D.	Arts 1	92 Lorne Ave., St. Lambert	St. Lam. 181
Talbot, Ernest J.	Arts 3	3657 Oxenham Ave., Montreal	Marq. 5486
		Valleyfield, Que.	
Talbot, William Ed.	Med. 4	1441 Drummond St., Montreal	Up. 6500
		Hamilton, Bermuda	
Talpis, Clarence	Law 2	50 Arlington Ave., Westmount, Que.	West. 7599
Talpis, Harry J.	Com. 2	50 Arlington Ave., Westmount, Que.	West. 7599
Tamarin, Esther N.	Arts 3	1214 Lajoie Ave., Outremont, Que.	At. 4616M
Tannenbaum, Joseph	Arts 1	5344 Jeanne Mance St., Montreal	Cres. 0197
Tanner, Lea Elyse	Grad. Sch.	2005 Mansfield St., Montreal	Lan. 3074
Tanner, Lorraine L	Law 1	1469 Drummond St., Drummond Apts.	Marq. 1876
Taprell, Jane E.	Arts 3	1019 Sherbrooke St., Montreal	Up. 7913
		823 Royal Ave. W., Calgary, Alta.	
Tarbox, Byron R.	Med. 3	640 Prince Arthur St. W., Montreal.	Lan. 6809
		619 N. Center Ave., Miles City, Mont.	
Tarr, Hugh L. A.	Grad. Sch	Strathcona Hall	Lan. 1567
		240, 10th St. E., North Vancouver, B.C.	
Taub, Elsie	Arts 3	463 Girouard Ave., Montreal	Wal. 9102
Taylor, Cyril M.	Arch. 2	United Theol. College, 3505 University St., Montreal	Marq. 2055
		248 King St. E., Brockville, Ont.	
Taylor, Frederick B.	Arch. 5	3605 University St., Montreal	Marq. 3101
		299 Hillcrest Rd., Rockcliffe Pk., Ottawa, Ont.	
Taylor, Fred. W.	Theol. 2	3506 University St., Montreal	Marq. 2055
		7 Delaware St., Belfast, Ireland	
Taylor, George E. S.	Com. 3	3435 Shuter St., Montreal	Marq. 8973
		175 Athabasca St. W., Moose Jaw, Sask.	
Taylor, George I. G.	Arts 4	3647 University St., Montreal	Marq. 2806
		6 Wright St., Hull, Que.	
Taylor, Jack S.	Com. 3	128 Bedbrooke Ave., Montreal West. Que.	Wal. 3595
Taylor, Jean P.	Arts 2	599 Roslyn Ave., Westmount, Que.	West. 4312
Taylor, Kathryn Roy	Phy. Ed. 1	414 Beaconsfield Ave., Montreal	Wal. 2958
Tedford, Edmund H.	Ap. Sci. 1	512 Victoria Ave., Westmount, Que.	West. 8100
Tees, Herbert H.	Arts 1	426 Harvard Ave., Montreal	Wal. 1581
Tees, Ralph C.	Com. 1	1164 Lajoie Ave., Outremont, Que.	At. 5344
Temple, Allen D.	Med. 5	2 Redpath Row, Montreal	Up. 3044
Temple, Jocelyn T.	Arts 1	2 Redpath Row, Montreal	Up. 3044
Tennant, Agnes I.	Arts 2	156 Easton Ave., Montreal West. Que.	Wal. 0821
Tennant, Marjorie E.	Arts 4	156 Easton Ave., Montreal West, Que.	Wal. 0821
Tessier, Leo J.	Med. 4	83 Elmwood Pl., Montreal	At. 5312
		927 Atwells Ave., Prov. R.I.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Tessier, Norman V.	Arts 1	2043 Jeanne Mance St., Montreal	Har. 2323
Thibodeau, Jean J. E. M.	Arch. 3	5574 Park Ave., Montreal	Cres. 0349
Thiessen, Louis J.	Dent. 4	3574 Shuter St., Montreal	
		7 Terrace Pl., Troy, N.Y.	
Thom, Alexander T.	Med. 2	478 Cote St. Antoine Rd., Montreal	West. 9593
Thomas, Cambrian H.	Arts 1	4317 Adam St., Viauville, Que	
Thomas, George H.	Ap. Sci. 1	1441 Drummond St., Montreal	Up. 6500
		39 Brighton Ave., Ottawa, Ont.	
Thomas, William	Arts 2	Apt. 1, 21 Chesterfield Ave., Westmount, Que.	West. 6949J
		42 Rosemount Gds., Belfast, Ireland	
Thomas, William F.	Ap. Sci. 4	5910 Hutchison St., Montreal	Cres. 2958
Thompson, Ernest D.	Med. 3	2050 Victoria St., Montreal	Lan. 1798
		68 Pocasset Ave., Providence, R.I.	
Thompson, Helen L.	Arts 3	492 Grosvenor Ave., Westmount, Que.	West. 2147
Thompson, Robert R.	Grad. Sch	Macdonald College	Ste. An .166
		Gananoque, Ont.	
Thompson, Winifred	Arts 3	157, 17th Ave., Lachine, Que	Lach. 203M
Thomson, Elihu	Ap. Sci. 3	695 Grosvenor Ave., Westmount, Que.	West. 0518
Thornton, James Worth	Law 1	1415 Pine Ave., Montreal	Up. 1203
Thornton, Robert L.	Arts 4	Rosemere, Que	St. Ther 608 Ring 1-2
Thorpe, B. J.	Theol. 3	3473 University St., Montreal	Marq. 4902
		2445 Davidson St., Montreal	
Tilton, Grace W.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		342 Sydney St., Cornwall, Ont.	
Timm, Charles R.	Ap. Sci. 4	343 Lansdowne Ave., Westmount, Que.	West. 0015
Tinkler, Howard H.	Ap. Sci. 1	3474 De Bullion St., Montreal	Lan. 5538
Tinkoff, Lazarus L.	Law 2	174 DeMontigny St. E., Montreal	Har. 6934
Titleman, Morton S.	Ap. Sci. 2	4387 St. Urbain St., Montreal	Bel. 7373W
Titus, Aubrey C.	Com. P	1496 Bishop St., Montreal	Lan. 9857
Tobin, John C.	Grad. Sch	1226 Drummond St., Montreal	Up. 8970J
		Sydney Mines, N.S., Box 557	
Tomlinson, Ruth Nourse	Arts 4	21 Holton Ave., Westmount, Que.	West. 6776
Tooke, Elizabeth M.	Arts 4	4 Hudson Ave., Westmount, Que.	West. 2994
Tooke, Gretchen M.	Arts 1	4 Hudson Ave., Westmount, Que.	West. 2994
Tortolani, Aresto Peter	Med. 1	3419 University St., Montreal	Marq. 3089
		14 Parade St., Providence, R.I.	
Tough, David L.	Arts 3	3485 McTavish St., Montreal	Marq. 2720
		Paris, Ont.	
Townsend, Isabel M.	Arts 2	95 McCulloch Ave., Outremont, Que.	At. 0344W
Townsend, Milton G.	Arts 3	95 McCulloch Ave., Outremont, Que.	At. 0344W
Townsend, Stuart Ross	Med. 2	230 Beaconsfield Ave., Montreal	Wal. 7809
Traversy, Mabel L.	Arts P	3561 Lorne Ave., Montreal	Marq. 9541
Trimingham, Hugh L.	Arts 2	28 Monkland Ave., Montreal	Wal. 8083W
Trister, Saul M.	Grad. Sch	4393 St. Urbain St., Montreal	Bel. 1843M
Tritt, Anna Lee	Arts 2	531 Davaar Ave., Outremont, Que.	At. 3759W
Trotter, Wallace S.	Com. 3	91 Drummond Apts., Drummond St.	Marq. 1528
Trudel, Lucien	Arts. 4	5589, 1st Ave., Rosemount	Cher. 9625
Tsong, Thelma K. P.	Med. 5	Apt. 4, 3449 Shuter St., Montreal	Plat. 5616
		Shanghai, China.	
Tucker, Alfred Rea	Com. 2	772 Sherbrooke St. W., Montreal	Lan. 1567
		201 Dromore Ave., Winnipeg, Man.	
Tucker, Warren W.	Med. 1	7 Park Pl., Westmount, Que	West. 6031W
		c/o P. M. Tucker Co., 201 Devonshire St., Boston, Mass.	
Turner, Cecil H.	Med. 3	741 Mountain St., Montreal	Marq. 7471
		Meductic, York Co., N.B.	
Turner, Donald C.	Arts 2	424 Wood Ave., Westmount, Que.	West. 1787
Turner, George E.	Med. 2	539 Pine Ave. W., Montreal	Marq. 7818
		1653 Victoria Ave., Windsor, Ont.	
Turner, Harold Alfred	Arts 4	3506 University St., Montreal	Marq. 2055
		Appleton, Ont.	
Turner, J. Gilbert	Med. 3	545 Pine Ave. W., Montreal	Marq. 1545
		176 Charlotte St., Fredericton, N.B.	
Turner, Murray	Arts 1	1539 Crescent St., Montreal	Up. 4599
		Ashbury College, Ottawa, Ont.	
Turner, Rowena	Music 1	143 Prud'homme Ave., Montreal.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Tutill, George W. D	Med. 3	3516 Jeanne Mance St., Montreal Merritt, B.C.	Plat. 6522
Tuttle, Harry G	Arts 4	3572 Lorne Ave., Montreal Shearstown, Nfld.	Marq. 1831
Twitchell, Vernon B	Arts 3	2020 McGill College Ave., Montreal 6 Winter St., Tilton, N.H.	Plat. 2951
Tyo, J. Emile	Com. 1	106 Sherbrooke St. W., Montreal 125 New York Ave., Ogdensburg, N.Y.	Lan. 0815
Ulrichsen, Barbara	Arts 3	165 Cote des Neiges Rd., Montreal 452 Pomeroy Ave., Pittsfield, Mass.	Up. 6235
Urquhart, Fred S	Arts 4	5205 Durocher Ave., Outremont, Que.	Cres. 6518
Vaintrub, Sam. C	Com. 2	4233 Esplanade Ave., Montreal	Bel. 8726
VanDiepen, Glenn R. P	Com. 1	3592 University St., Montreal Banes Oriente, Cuba	Up. 9109
VanVliet, Jonathan E	Arts 2	772 Sherbrooke St. W., Montreal Dewittville, Que.	Lan. 1567
Vanwyck, Norman	Arts 4	3592 University St., Montreal 621 Belmont Ave., Westmount, Que.	Wal. 7788J
Vassel, Raymond C	Dent. 1	3609 Park Ave., Montreal 29, 46 N. 165 Flushing, N.Y.	Har. 2652
Vatcher, Samuel	Theol. 1	3506 University St., Montreal Battery Rd., St. Johns, Nfld.	Marq. 2055
Veitch, W. J	Com. 3	445 Strathcona Ave., Westmount, Que.	West. 0389
Vezina, Frank A	Arts 2	1441 Drummond St., Montreal	Up. 6500
Victor, William V	Com. 3	3863 St. Lawrence Blvd., Montreal	Plat. 1591
Viger, Roland J	Med. 2	640 Prince Arthur St. W., Montreal 16 Dartmouth St., Lawrence, Mass.	Lan. 6809
Villiaume, Lambert E	Med. 3	640 Prince Arthur St. W., Montreal 508 South Park Ave., Buffalo, N.Y.	Lan. 6809
Vineberg, Arthur M	Grad. Sch	4333 Westmount Ave., Westmount, Que.	West. 0033
Violette, Roger N	Med. 3	4040 Ontario St., Montreal	Clair. 6177W
Vipond, Alva M	Arts 1	4138 Dorchester St., Westmount, Que.	West. 1532
Vipond, W. Clarence	Ap. Sci. 1	664 Wiseman Ave., Outremont, Que.	At. 3240
Vogin, Alfred M	Ap. Sci. 2	4074 Lafontaine Park, Montreal	Fron. 9541
VonHaeseler, Paul	Med. 4	50 Marlowe Ave., Montreal 1308 N. Cayuga St., Ithaca, N.Y.	Wal. 5620
Vosberg, Clarence	Dent. 2	469 Lansdowne Ave., Westmount, Que.	West. 0302
Voss, Harry Ed	Med. 5	3566 Lorne Ave., Montreal 69 Spring St., Kingston, N.Y.	Marq. 8812
*Wade, Arthur B	Med. 3	3506 University St., Montreal Renfrew, Ont.	Marq. 2055
Wade, M. Millicent	Soc. Workers 1	3573 Hutchison St., Montreal 36 Queenston St., Winnipeg, Man.	Plat. 0818
Wainer, Louis	Med. 2	4531 Esplanade Ave., Montreal	Bel. 6344
Wait, Arthur H	Com. 1	3609 University St., Montreal 2 Fourth Ave., Ottawa, Ont.	Marq. 4300
Wait, J. Robert	Arts 1	142 Marlowe Ave., Montreal	Wal. 4322
Walbridge, Frances M	Arts 1	43 Burton Ave., Westmount, Que.	West. 1864
Walker, Jos A. Leo	Med. 4	3457 Shuter St., Montreal 130 Askin Blvd., Sandwich, Ont.	Marq. 7669
Walker, Ronald Lane	Arts 1	Strathcona Hall, Montreal Warden Court, Presteigne, Rads, Eng.	Lan. 1567
Wallace, John Stephen	Arts 1	40 Aberdeen Ave., Westmount, Que.	West. 7607
Wallace, Keith Bell	Ap. Sci. 4	195 Belgrave Ave., Montreal	Wal. 6589
Wallace, Reginald E. B	Ap. Sci. 1	1484 Mansfield St., Montreal Granby, Que.	Plat. 7525
Waller, Clara	Soc. Workers	59 Sanford Ave., St. Lambert, Que.	St. Lam. 751
Wallis, A	Theol	3473 University St., Montreal	Marq. 4902
Walsh, Allison A. M	Arts 1	3528 Lorne Ave., Montreal	Marq. 6400
Walsh, James E., Jr	Law 1	3504 Durocher St., Montreal	Plat. 3776
Ward, Elmer R	Arts 2	446 Durocher Ave., Montreal	At. 1846
Wardleworth, Eleanor S	Grad. Sch	168 Cote St. Antoine Rd., Westmount, Que	West. 2018
Wardleworth, Una Scott	Arts 1	168 Cote St. Antoine Rd., Westmount, Que.	West. 2018
Warhaft, A. M	Com. 2	82 Duluth Ave. W., Montreal	Bel 5303J
Warner, Elizabeth N	Med. 3	3492 Peel St., Montreal	Up. 2132

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Warner, Harry M	Arts 2	120 Abbott Ave., Westmount, Que. Mille Roches, Ont.	West. 4611
Warren, Herbert H	Com. 4	1530 Bernard Ave., Outremont, Que.	At. 4525
Warren, Kathleen H	Arts 2	1530 Bernard Ave., Outremont, Que.	At. 4525
Warson, Samuel R	Med. 1	3429 Shuter St., Montreal	Marq. 7406
Wass, Marjorie B	Arts 2	188 Prince Edward St., St. John, N.B. Apt. 6, Barat Court, 3015 Sherbrooke St. W.	West. 8527
Waters, E. H	Theol	3473 University St., Montreal	Marq. 4902
Watier, Arthur H	Ap. Sci. 2	4169 Dorchester St. W., Montreal	West. 4433
Watkins, Allan	Law 1	1025 Sherbrooke St. W., Montreal 3511 Piedmont Road, Atlanta, Ga.	Up. 4418
Watson, John Bryett	Arts 3	3506 University St., Montreal 27 Monkstown Rd., St. Johns, Nfld.	Marq. 2055
Watson, Margaret M	Grad. Nurses 1	2095 Comte St., Apt. 16, Montreal	Wil. 0868
Watson, Reginald E. L	Med. 1	3539 Shuter St., Montreal Windsor Mills, Que.	Marq. 4300
Watson, Thomas J	Arts 2	3485 McTavish St., Montreal 47 Mansion House, Camelon, Falkirk, Scotland	Marq. 2720
Watt, Alastair McA	Arts 4	161 Laurier Ave. E., Montreal	Bel. 4723F
Way, Bessie Bernice	Arts 1	Royal Victoria College, Montreal Allanda'e, Ont.	Plat. 0078
Wayland, Charles H	Arts 1	287 Prud'homme Ave., Montreal	Wal. 6680
Webb, Dwight	Arts 2	3485 McTavish St., Montreal Cardinal, Ont.	Marq. 2720
Webster, Donald R	Grad. Sch	26 Redpath Crescent, Montreal Pictou, N.S.	Up. 3196
Webster, Ed. Clark	Arts 3	3506 University St., Montreal 10803, 93 St., Edmonton, Alta.	Marq., 2055
Webster, Lorne S	Com. 4	7 Edgehill Rd., Westmount, Que.	West. 4110
Webster, Reginald H	Arts 3	7 Edgehill Rd., Westmount, Que.	West. 4110
Webster, Richard C	Com. 2	7 Edgehill Road, Westmount, Que.	West. 4110
Weidman, William H	Med. 4	1306 Dorchester St. W., Montreal 245 Cattell Ave. W., Collingswood, N.J.	Up. 9201
Weiner, Florence	Arts 3	463 Old Orchard Ave., Montreal	Wal. 3248
Weiner, Hyman	Med. 1	4548 Esplanade Ave., Montreal	Bel. 9123
Weiner, Sydney	Law 1	463 Old Orchard Ave., Montreal	Wal. 3248
Weinfield, Mortimer	Arts 1	440 Elm Ave., Westmount, Que.	West. 5384
Weinstein, Anna Phyllis	Grad. Sch	5385 Durocher Ave., Outremont, Que.	Cres. 0996
Weinstein, Oscar	Com. 3	5385 Durocher Ave., Outremont, Que.	Cres. 0996
Weintraub, David	Med. 4	1484 Sherbrooke St. W., Montreal 11 Orr Sq., Revere, Mass.	Up. 4250
Weiss, Carl A	Med. 3	3580 Durocher St., Montreal 130 East St., Lawrence, Mass.	Plat. 7422
Weiss, Herbert S	Med. 3	1176 Sherbrooke St. W., Montreal 748 Kelly St., N.Y.C.	Up. 1674W
Weiss, Selig Oscar	Com. 4	5345 Jeanne Mance St., Montreal	Cres. 7839
Weissenburger, Peter	Com. 2	538 Prince Arthur St. W., Montreal Odile, Obernai, Bas Rhin, France	Marq. 2740
Weldon, F. E	Com. 2	Apt. 15, 130 McGregor St., Montreal.	Up. 7953
Weldon, Frederick E	Grad. Sch	719 Drummond Court Apts., Montreal	Up. 2276
Wener, Joseph Leon	Phar. 1	425 Edward Charles, Apt. 2, Montreal	At. 6818
Wener, Seymour	Com. 3	341 Oxford Ave., Montreal	Wal. 4357
Werry, Wilfrid W	Arts 3	162 Colbrooke Ave., Montreal	Wal. 7207
*Wexler, B	Ap. Sci. 1	3631 DeBullion St., Montreal	Lan. 0328
Wexler, Lillian E	Arts 3	435 Lansdowne Ave., Montreal	West. 1219
Whalen, Harold J	Dent. 4	3543 Lorne Ave., Montreal 828 Flower City Pk., Rochester, N.Y.	Marq. 6507
Whalen, James A. L	Com. 4	2020 Victoria St., Montreal Port Arthur, Ont.	Lan. 5931
Wheatley, Eric E	Ap. Sci. 4	657 Belmont Ave., Westmount, Que.	West. 0780
Wheeler, Clifford V.	Arts 2	254 Vendome Ave., Montreal	Wal. 6126
White, Arthur R. V	Med. 3	1500 Crescent St., Montreal 160 Claremont Ave., Norwood, Winnipeg, Man.	Up. 3999

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
White, Charles A	Law 2	3609 University St., Montreal 147 Victoria St., Sherbrooke, Que.	Marq. 4300
White, Edwin J	Arts 2	3485 McTavish St., Montreal 319 Fitzroy St., Charlottetown, P.E.I.	Marq. 2720
White, Florence Jean	Arts 3	312 Brock Ave. N, Montreal West.	Wal. 0851
White, Marion	Arts 4	3568 Hutchison St., Montreal Grand Falls, N.B.	Har. 7314
Whitehouse, Ralph J	Ap. Sci. 1	Strathcona Hall, Montreal 175 Battle St., Kamloops, B.C.	Lan. 1567
Whitton, Francis H	Arts 1	3605 University St., Montreal Lancaster, Ont.	Marq. 1447
Widgor, Myer	Com. 1	6121 Hutchison St., Montreal	At. 1298J
Wiggers, Herbert A	Med. 1	640 Prince Arthur St., Montreal 183 Madison Ave., Flushing, N.Y.	Lan. 6809
Wiggins, Forest W	Arts 1	308 Ballantyne Ave. N., Montreal West, Que.	Wal. 2279J
Wight, Allan G	Com. 1	2345 Moreau St., Montreal	Clar. 0010
Wilanski, Lillian F	Arts 4	806 Cote St. Antoine Rd., Westmount, Que.	Wal. 5781
Wilanski, Ruth	Arts 1	806 Cote St. Antoine Rd., Westmount, Que.	Wal. 5781
Wilkey, John R	Med. 4	640 Prince Arthur St. W., Montreal 186 Elmwood Ave., London, Ont.	Lan. 6809
Wilkinson, Arthur	Ap. Sci. 1	739A Champagneur Ave., Outremont	At. 4115
Wilkinson, Frederick A. H	Med. 2	88 Musset Ave., Montreal	Wal. 6476
Williams, Alex. J	Arts 1	4005 St. Hubert St., Montreal	Fron. 4151
Williams, Harold E	Com. 2	1019 Sherbrooke St. W., Montreal 245 Germain St., St. John, N.B.	Up. 1913
Williams, Moses	Arts P	3506 University St., Montreal Sunny Side, Nfld.	Marq. 2055
Williams, Richard L	Ap. Sci. 3	159, 24th Ave., Lachine, Que	Lach. 760F
Williams, Robert L	Arts P	485 Cote des Neiges Rd., Montreal	West. 9976
Williamson, John T	Grad. Sch.	1245 St. Mark St., Montreal	Wil. 0178
Willis, Selwyn T	Arts 1	382 Olivier Ave., Westmount, Que.	West. 0228
Willmott, John B	Ap. Sci. 1	527 Old Orchard Ave., Montreal	Wal. 7735
Wills, Nicholas J	Arts 2	460 Prince Arthur St. W., Montreal 596 Bronson Ave., Ottawa, Ont.	Plat. 4395
Wilson, Alfred R	Arts 1	314 Melrose Ave., Montreal	Wal. 2191
Wilson, Charles V	Grad. Sch	3549 Mance St., Montreal. Birch Hill, Sask.	
Wilson, Evelyn C	Grad. Sch	4425 St. Catherine St., Westmount, Que.	West. 1804
Wilson, George E	Arch. 1	556 Wilson Ave., Montreal	Wal. 1282
Wilson, Marion H	Arts 1	612 Victoria Ave., Westmount, Que.	West. 3734
Wilson, Reginald A	Med. 1	3637 University St., Montreal 1355, 14th Ave. W., Vancouver, B.C.	Lan. 3517
Wilson, Richard T	Med. 1	3485 McTavish St., Montreal 14 Whitfield Rd. W., Somerville, Mass.	Marq. 2720
Wilson, Roger	Med. 1	3515 University St., Montreal "Laguannan" Uplands, Victoria, B.C.	Marq. 2631
Wilson, Wallace L	Arts 2	3667 Jeanne Mance St., Montreal Brownsburg, Que.	Har. 5427
Wilson, William F	Arts 1	5675 Sherbrooke St. W., Apt. 1, Montreal	Wal. 8049J
Wilton, John Marshall	Com. 1	3454 Peel St., Montreal Kenora, Ont.	Up. 6788
Winn, James	Arts 1	4841 Marquette St., Montreal	Cher. 6891
Winter, Ethel Jean	Arts 1	4684 Westmount Ave., Westmount, Que.	West. 0334
Winter, William H	Med. 3	1840 Sherbrooke St. W., Montreal 604 Fowl Bay Rd., Victoria, B.C.	Up. 9682
Wiselberg, Dorothy	Med. 5	43 Holton Ave., Westmount	West. 5614W
Wisely, John S	Med. 1	477 Prince Arthur St. W., Montreal 16 Hart Blvd., Staten Island, N.Y.	Plat. 1916
Witter, Howard B	Med. 4	2019 Stanley St., Montreal 243 Lafayette St., Baton Rouge, La.	Lan. 0934
Wolever, John K	Arch. 5	536 Prince Albert Ave., Westmount, Que.	West. 3006

*Left early in session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Wolfendale, G. H.	Theol	3473 University St., Montreal	Marq. 4902
Wolff, Charles Ed. F	Arts 2	3473 University St., Montreal	Marq. 4902
		17 Palace Sq., Upper Norwood, S.E. 19, London, Eng.	
Wolff, George S	Med. 1	3547 University St., Montreal	Plat. 1352
		49 Washington St., Painesville, Ohio	
Wolfson, Charles	Law 3	4457 St. Urbain St., Montreal	Bel. 4165
Wolstein, Edward	Med. 3	2026 McGill College Ave., Montreal	Lan. 8610
		134 Stewart St., Ottawa, Ont.	
Wong, George Donald	Arts 1	1107 St. George St., Montreal	Lan. 6538
Wood, George W	Arts 1	1557 St. Mark St., Apt. 9, Montreal	Up. 0692
Wood, Helen Elizabeth	Arts 2	4485 Sherbrooke St., Westmount, Que.	West. 0440
Wood, Kathryn P	Arts 1	201 The Boulevard, Westmount, Que.	West. 3168
Wood, Stuart B	Com. 4	3581 University St., Montreal	Marq. 3842
		Miraflores, Lima, Peru, S.A.	
Wood, Winona E	Phy. Ed. 2	3466 University St., Montreal	Marq. 2608
		Oxbow, Sask.	
Woodley, Elsie C	Arts 4	516 Grosvenor Ave., Westmount, Que.	West. 4385
Woods, Doris A	Soc. Workers P.	St. Columba House, 2365 Grand Trunk St., Montreal	Wil. 6202
		766 King St., Fredericton, N.B.	
Woodwark, Kenneth H	Arts 4	3506 University St., Montreal	Marq. 2055
		Ste. Rose, Que.	
Woolley, Eric S	Com. 4	227 Clifton Ave., Montreal	Wal. 0589M
Woollven, James A	Arch. 2	317 Elm Ave., Westmount, Que.	West. 0217
Worthington, Robert L	Med. 2	3433 Peel St., Montreal	Up. 2143
		1560, 8th St., San Diego, Calif.	
Wright, Edwin K	Med. 4	2102 Bleury St., Montreal	Plat. 0391
		Eel River Crossing, N.B.	
Wright, Robert H	Grad. Sch	2047 Metcalf St., Montreal	Lan. 9509
		3837 Alexandra Ave., Vancouver, B.C.	
Wrigley, Ernest	Arts P	2241 St. Antoine St., Montreal	Wil. 1824
Wurtele, Campbell	Ap. Sci. 4	Ste. Therese de Blainville, Que.	
Wyatt, Eva	Grad. Nurses P.	Alexandra Hospital, Montreal	Wil. 5171
		99 Northcliffe Ave., Montreal	
Wykes, Eric R	Ap. Sci. 4	864 Church Ave., Verdun, Que.	York 9333F
Wylde, Edmund W	Med. 4	3660 Lorne Crescent, Montreal	Plat. 3737
		1613, 46th Ave., Seattle, Wash.	
Wylie, Miriam F	Phy. Ed. 1	3466 University St., Montreal	Marq. 2609
		Estevan, Sask.	
Wyman, Harold R	Grad. Sch	Strathcona Hall, Montreal	Lan. 1567
		Yarmouth, N.S.	
Yelin, Gabriel	Arts 3	3549 St. Famille St., Montreal	Plat. 3430
Yelin, Moses S	Law 2	3549 St. Famille St., Apt. 1, Montreal	Plat. 3430
Yeomans, Richard H	Ap. Sci. 4	55 Wolseley Ave., Montreal West	Wal. 3055W
York, Florence J	Arts 4	541 Rockland Ave., Outremont, Que.	At. 0429
York, Fred G	Ap. Sci. 1	3530 Durocher St., Montreal	Plat. 0316
		560 Driveway, Ottawa, Ont.	
Young, Donald A	Arts 2	3647 University St., Montreal	Marq. 2806
		Ottawa, Ont.	
Young, Donald Mackey	Arts 1	594 Earnscliffe Ave., Montreal	Wal. 2955
Young, Geo. MacD	Ap Sci. 4	3485 McTavish St., Montreal	Marq. 2720
		626 University Drive, Saskatoon, Sask.	
Young, Gilbert M	Arts 1	6347, 24th Ave., Rosemount, Montreal	Cla r. 7133
Young, Harold G	Arts 3	3485 McTavish St., Montreal	Marq. 2720
		Maryland, Que.	
Young, Horace C	Ap. Sci. 1	3560 Hutchison St., Montreal	Har. 4673
		156 Ellsworth Ave., Toronto, Ont.	
Yuen, Henry B	Ap. Sci. 1	1051 Clarke St., Montreal	Lan. 5881
Yuile, Charles L	Arts P	3540 Ontario Ave., Montreal	Up. 2182
Zahalan, Rose	Arts 2	1555 Laurier Ave. E., Montreal	Amh. 6084
Zaitlin, Abraham H. J	Law 1	6853 St. Lawrence Blvd., Montreal	Cres. 7446
Zimmerman, Clark B	Med. 3	539 Pine Ave. W., Montreal	Marq. 7818
		Mt. Carmel, Penn., U.S.A.	
Zimmerman, George T	Arts 2	5702 Hutchison St., Montreal	Cres. 2575

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Zitzmann, Irene J	Grad. Sch.	5066 St. Catherine E., Montreal 6542 N. 32 St., Omaha, Neb.	Clair. 6028
Zlotnik, Mortimer	Arts 4	878 Dollard Blvd., Montreal	At. 5858
Zobel, Jerome F	Med. 2	772 Sherbrooke St., Montreal 352 Lake St., San Francisco, Calif.	Lan. 1567
Zoll, Samuel Howard	Med. 5	2059 Peel St., Montreal 10 Reynolds Ave., Everett, Mass.	Lan. 0704
Zuck, Zelda Jean	Arts 4	224 St. Joseph Blvd.E., Montreal	Bel. 0056
Zuker, Esther	Arts 2	4317 Esplanade Ave., Montreal	Bel. 8102J
Zwisler, Frederick F	Med. 2	3530 Park Ave., Montreal 51 Cherry Hill, Holyoke, Mass.	Plat. 1554

SUMMARY OF STUDENTS IN ATTENDANCE AT THE UNIVERSITY

Session 1929-30

Arts	1,028
School of Commerce	248
Applied Science	302
Medicine	469
Department of Pharmacy	22
Dentistry	38
Law	93
Agriculture	243
Music	235
School for Social Workers	29
School of Physical Education	33
School of Household Science	94
School for Graduate Nurses	36
Faculty of Graduate Studies and Research	174
Library School	18
	3,062
Less registered in more than one Faculty	19
Grand total	3,043

DATE DUE

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ILL ML DEC 21 1970	FEB 1 1971
ILL ML MAR 2 4 1972	MAR 21 1972
ILL ML	JUL 10 1981 JUL 6 1981

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